# Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.



R

984 M Nise Pub. 1003

# ECONOMICS OF FORESTRY

A Bibliography for the United States and Canada
1960-1962



Miscellaneous Publication 1003
U.S. Department of Agriculture
Forest Service



# **ECONOMICS OF FORESTRY**

A Bibliography for the United States and Canada 1960–1962

Compiled by

FAY RUMSEY

Department of Forestry Economics State University College of Forestry at Syracuse University

(Forest Service, U.S. Department of Agriculture, Cooperating)

U.S. Department of Agriculture • Forest Service

Miscellaneous Publication 1003

Washington, D.C. 20250

# COMPILER'S NOTE

This bibliography lists publications and postgraduate theses in the field of forestry economics issued in the United States and Canada in 1960, 1961, and 1962. Other such bibliographies that have appeared since 1929 are:

Anon. Forest economics bibliography. 31 pp. processed. (Wash-

ington, D.C.?) July 1, 1929.

Nelson, A. Z. A selected bibliography on the economics of forestry in the United States. U.S. Dept. Agr. Forest Serv., Div. of Forest Economics. Washington, D.C. 172 pp. processed. October 1, 1941.

Flick, F. J., and Brown, E. P. Economics of forestry, a bibliography for the United States and Canada, 1940–1947. U.S. Dept. Agr. Libr. List 52. Washington, D.C. 126 pp. processed. June 1950.

Flick, F. J. Economics of forestry, a bibliography for the United States and Canada, 1948-1952. U.S. Dept. Agr. Libr. List 52, sup. 1.

Washington, D.C. 136 pp. June 1955.

Jackman, M., Berry, W. M., and McMahon, R. O. Economics of forestry, a bibliography for the United States and Canada, 1953-1954. Forest Serv. U.S. Dept. Agr. Libr. List 52, sup. 2. Washington, D.C. 45 pp. February 1959.

Rumsey, F. Economics of forestry, a bibliography for the United States and Canada, 1955–1959. State University College of Forestry

at Syracuse University, Syracuse, N.Y. 136 pp. 1964.

Rumsey, F. Forestry economics, a current selected bibliography. Nos. 1-7. Department of Forestry Economics, State University College of Forestry at Syracuse University, Syracuse, N.Y. June 1963-

June 1965 (three issues per year).

Sources consulted in compiling the present bibliography include the following: Card catalogs at the libraries of the U.S. Department of Agriculture, Syracuse University, Cornell University, and State University College of Forestry; Bibliography of Agriculture and other bibliographies of forestry and of economics; Forestry Abstracts; Economic Abstracts; Dissertation Abstracts; annual reports and publication lists of U.S. Forest Service Experiment Stations; U.S. Superintendent of Documents Catalog of the Public Documents; forestry, economics, and wood-industry trade journals; Canadian Department of Forestry and provinces publication lists; Books in Print; and indexes and review sections of pertinent periodicals.

All works listed have been reviewed, with the exception of those

marked with an asterisk.

The compiler thanks the Forest Service, U.S. Department of Agriculture, for sponsoring and publishing this bibliography. Staff members of the libraries listed above were most helpful, as were the authors who provided lists or copies of their works. William A. Duerr, Chairman of the Department of Forestry Economics in the College of Forestry at Syracuse, served as advisor in the project.

> FAY RUMSEY Department of Forestry Economics State University College of Forestry Syracuse, N.Y.

# CONTENTS

	Page		Page
FORESTRY ECONOMICS AT LARGE_	1	AGENTS OF PRODUCTION IN	
General	1	FORESTRYContinued	
Forest resources and industries of an		Capital	12
area	1	Ĝeneral, investment	12
World and its major regions	1	Credit	13
United States	1	FOREST MANAGEMENT	13
General	1	Production including nontimber com-	
Northern United States	1	modities and services	13
Northern United States		Multiple purposes	13
Southern United States	2	Livestock	14
Western United States	3	Pageation	15
Canada	4	Recreation	16
Other areas	5	Water, soil	
Policies, programs, and their adminis-		Wildlife	16
tration	5	Management chiefly for timber	16
General	5	General	16
Public	6	General	16
General	6	Northern United States	17
United States Federal	6	Southern United States	17
		Western United States	18
United States State and local	6	Canada	18
Northern United States	6	Records, accounts, planning	18
Western United States	6	Soil, site	19
Canada	6	Tree regeneration	19
Finance	6	General	19
Taxation	6	Northern United States	19
Valuation	8	Southern United States	19
Insurance	8	Western United States	19
	8	Canada	19
Research		Intermediate outting stand in	19
General	8	Intermediate cutting, stand im-	00
Northern United States	9	provement	20
Southern United States	9	General	20
Western United States	9	Northern United States	20
Professional activities, education, em-		Southern United States	20
ployment of foresters	9	Western United States	20
AGENTS OF PRODUCTION IN		Harvest cutting, regulation, rota-	
FORESTRY	9	tion, stocking	20
		General	20
Labor	9	Northern United States	21
General	9	Southern United States	21
Unions	10	Western United States	21
Wages, hours, productivity	10	Canada	21
Compensation, safety, other work-		Roads, other transportation	21
ing conditions	10	Protection	21
Owner, ownership, manager, entre-		Protection from fires	21
preneur	10	Prescribed burning	22
General	10	Protection from insects	22
Public	10		22
Private	10	Protection from other agencies	
General	10	FOREST INDUSTRY	22
Industrial owner		General	22
	10	Status and trends	22
Farmer and other small forest		United States	22
holder	10	General	22
General	10	Northern United States	22
Northern United States	11	Southern United States	23
Southern United States	12	Western United States	23
Western United States	12	Canada	23
Land	12	Other areas	23

# CONTENTS

	Page		Pag	
FOREST INDUSTRY—Continued		FOREST INDUSTRY—Continued		
Directories	23	Wood-using industry—Continued		
Timber-harvesting industry	25	Byproducts		
General	25	Veneer, plywood	3	
General	25	Industry status and trends	3	
Southern United States	25	Firms and their processes	3	
Western United States	25	Raw material	3	
Canada	26	Bark, chips, other residues	3	
Production	26	Poles, piling, posts	3	
Southern United States	26	Charcoal	3	
Western United States	26	Particle board, hardboard, fiber-		
Canada	26	board	3	
Utilization of the stand or tree	26	Other wood-using industry	3	
General	26	Other forest industry	3	
Northern United States	26	Christmas trees, decorative prod-		
Transportation	26	ucts	3	
Wood-using industry	27	Naval stores	3	
Lumber, allied products	27	Maple products	3	
Industry status and trends	27	Maple products  FOREST-PRODUCT DEMAND, PRICE, MARKETING, TRADE		
General	27	PRICE, MARKETING, TRADE	3	
Northern United States	27	Demand General; consumer and his prefer-	3	
Southern United States	27	General; consumer and his prefer-		
Western United States	27	ences	3	
Canada	28	Consumption or production goals,		
Production, consumption, stocks_	28	prospective requirements	3	
Firms and their processes	28	Price	3	
Raw material	28	Stumpage	3	
Pulp, paper, board	29	Other products	3	
Industry status and trends	29	Price reporting	3	
General	29	Marketing, trade	3	
Northern United States	29	General	3	
Southern United States	30	General	3	
Western United States	30	Northern United States	3	
Canada	30	Southern United States	3	
Other nations	30	Western United States	3	
Firms and their processes	30	Lumber, allied products	3	
Raw material	31	Pulp, paper, board	3	
General	31	Product	3	
Production, consumption	31	Wood raw material	3	
General	31	Christmas trees	4	
Northern United States	31	Other products	4	
Southern United States	31	Transportation	4	
Canada	32	AUTHOR INDEX	4	

# FORESTRY ECONOMICS AT LARGE

#### GENERAL

- ALLEN, S. W., and SHARPE, G. W.

  An introduction to American forestry. Ed. 3, 466 pp.
  New York: McGraw-Hill. 1960.
  Includes U.S. forest economy.
- COOMBS, C. L. 2
  High timber; the story of American forestry. 223
  pp. Clevely World Pub. Co. 1960.

  A bistory grouping all forest activity logging

A history covering all forest activity—logging, recreation, wildlife, water, grazing, fire and pest protection, and the wood-using industry.

- DUERR, W. A.

  Fundamentals of forestry economics. 579 pp. New York: McGraw-Hill. 1960.
- DUERR, W. A.

  The role of economics in forestry progress. Forestry Chron. 37(2): 116–122. 1961.
- GLESINGER, E. 5
  The role of forestry in world economic development.
  Fifth World Forestry Cong. Proc. 1: 191–195. See
  also Pulp & Paper Mag. Canada 61(9): 190–191, 193,
  196. Sept. 1960.
- HAMILL, L. 6
  Forecast of forest resources for Douglas and Lane
  Counties. Univ. of Oregon, Bur. of Business Res.
  Studies. Weyerhaeuser Co., Tacoma, Wash., cooperating. 1962.
- One occipital condyle too many? Forest Prod. Jour. 10(12): 651-653. Dec. 1960.

Forest resources and management in relation to the forest products industries.

- MacGREGOR, J. J. 8
  Two papers on the political economy of British agriculture and forestry related to the European Common Market. Carbondale, Ill.: Southern Ill. Univ., Dept. of Forestry. 21 pp. 1962.
- RUTTEN, V. W., and CALLAHAN, J. C. 9
  Resource inputs and output growth; comparisons between agriculture and forestry. Forest Sci. 8(1): 68–82. Mar. 1962.
- WOHLETZ, E. 10 Dynamic and economic forces influencing forest land use and management. Northwest. Wood Prod. Clinic Proc. 16: 105–109. 1961.
- FOREST RESOURCES AND INDUSTRIES OF AN AREA

(This section includes material on forest resources alone. For forest industry alone, see Forestry Industry, General, Status and trends.)

## WORLD AND ITS MAJOR REGIONS

CHITTENDEN, A. E. 11
Potentialities of tropical forests in the world's timber economy. Fifth World Forestry Cong. Proc. 1960: 1081–1083. 1962.

- DIN, U. A. 12
  Forestry progress in the Far East. Fifth World
  Forestry Cong. Proc. 1: 223-227. 1960.
- HARRISON, J. D. B.
  Progress in forestry in North America. Fifth World
  Forestry Cong. Proc. 1960: 233–236. 1962.
- KALKKINEN, E. 14
  Forestry progress in Latin America. Fifth World
  Forestry Cong. Proc. 1960: 229–232. 1962.

#### UNITED STATES

#### General

- DICKINSON, F. E. 15
  Wood at its apogee? Soc. Amer. Foresters Proc. 1959: 41–44. 1960.
  Forest products situation and outlook.
- FORESTS AND PEOPLE FORUM
  Our future timber supply—too much or too little?
  Forests and People 11(4): 3, 34-39. 4th Quart.
  1961.
  Participants: Post, H. A., Josephson, H. R., Hood,
  - Participants: Post, H. A., Josephson, H. R., Hood, A. B., Cothren, V. W., Pomeroy, K. B., Malsberger, H. J., and Bromley, W.S.
- HIGHSMITH, R. M., JENSEN, J. G., and RUDD, R. D. 17 Conservation in the United States. 322 pp. Chicago: Rand McNally and Co. 1962. Chapter 8, Conserving forest resources. pp. 137–
- JOSEPHSON, H. R., and WILSON, R. C. 18 Forests for the future. U.S.D.A. Yearbook Agr. 1962: 229–232.
- PANSHIN, A. J., HARRAR, E. S., BETHEL, J. S., and BAKER, W. J. 19 Forest products, their sources, production, and utilization. 538 pp. New York: McGraw-Hill. 1962.

Chapter 1—Timber resources and their importance in the economy of the United States, pp. 3–15.

U.S. FOREST SERVICE 20 Look to your timber, America. U.S.D.A. Misc. Pub. 766, 17 pp. rev. 1960.

#### Northern United States

- AMERICAN FOREST PRODUCTS INDUSTRIES 21
  Maine forest facts. Bangor, Maine Committee
  Amer. Forest Prod. Indus., 15 pp. 1962.
- AMERICAN FOREST PRODUCTS INDUSTRIES 22 Missouri forest facts. St. Louis, Mo., 11 pp. 1961.
- AMERICAN FOREST PRODUCTS INDUSTRIES 23 New Hampshire forest facts, 1960–1961. Lincoln, 12 pp. 1961.
- AMERICAN FOREST PRODUCTS INDUSTRIES 24 New York forest facts. Washington, D.C.: New York Forest Industries Committee, 19 pp. 1962.

- AMERICAN FOREST PRODUCTS INDUSTRIES 25 Pennsylvania forest facts. Harrisburg, Pa., 16 pp. 1961.
- AMERICAN FOREST PRODUCTS INDUSTRIES 26 Rhode Island forest facts. Ed. 1959-60. Washington, D.C., 11 pp. 1960.
- ANDRESS, J. M. 27
  The role of wood in the economy of Maine. Thesis (M.F.), Univ. Calif. 1960.\*
- ASSOCIATION FOR MULTIPLE USE OF MAINE TIMBERLANDS

  The proposed Allagash National Recreation Area.
  Jour. Forestry 60(3): 206–208. Mar. 1962.
  Effect on Maine's economy.
- BUCKMAN, R. E. 29 Growth and yield of red pine in Minnesota. U.S. Dept. Agr., Forest Serv. Tech. Bul. 1272, 50 pp. 1962.
- CALLAHAN, J. E., and LOTT, E. J. 30 Forest resources of Indiana. Northeast. Logger 9(10):10-11,46-47. Apr. 1961.
- CHRISTEN, H. E. 31
  A survey of the capabilities of the Lake States' forests to support an expanding pulp and paper industry. Thesis (Ph. D.), Mich. State Univ. 1961.\*
- DAVIDSON, R. R. 32 Comparisons of the Iowa forest resource in 1832 and 1954. Iowa State Jour. Sci. 36(2): 133-136. Nov. 1961.
- FERGUSON, R. H., and LONGWOOD, F. R. 33 The timber resources of Maine. U.S. Forest Serv. Northeast. Forest Expt. Sta., 75 pp. 1960.
- FINDELL, V. E., PFEIFER, R. E., HORN, A. G., and TUBBS, C. H. 34 Michigan's forest resources. U.S. Forest Serv. Lake States Forest Expt. Sta. Paper 82, 46 pp. 1960.
- HORN, A. F. 35
  Pulpwood in New York—how do we stand? Tappi 45(12):150A-152A, Dec. 1962.
- KEARNS, F. W. 36
  An economic appraisal of the state forests of Michigan. Thesis (Ph. D.), Mich. State Univ. 1961.
- KEARNS, F. W., JAMES, L. M., SMITH, N. F., and PFEIFER, R. E. 37

  An economic appraisal of Michigan's state forests. Mich. Dept. Conserv., Forestry Div. Tech. Pub. 2, 59 pp. Jan. 1962.
- LARSON, E. V. H. 38
  The forest wealth of Maine. Maine Forest Serv., 29 pp. 1961.
- MARQUIS, R. W. 39
  Timber resources in the Northeast. Northeast. Logger 9(8): 12–13; 48–49. Feb. 1961.
- MARQUIS, R. W.

  Utilization and marketing of West Virginia hard-woods. W. Va. Governor's Conf. Wood Utilization Proc: 75–80. 1962.
- McGINNIES, W. G., QUIGLEY, K. L., and McCAULEY, O. D. 41
  Forest resources of southeastern Ohio. Ohio State Univ. Nat. Resources Seminar, pp. 131–154. 1961.

- MENDEL, J. J. 42
  Timber resources of the eastern Ozarks. Columbia.
  Mo. Agr. Expt. Sta. Bul. 779, 74 pp. June 1961.
- NORDEN, R. L.

  An inventory and study of the historical development of the major resources of Marquette County, Mich., Thesis (Ph. D.), Mich. State Univ. 1960.\*
- STODDARD, C. H., and HOUSE, W. P. 44
  Small business in New Hampshire's forestry and
  forest products industries. Concord, N.H. State
  Planning and Development Com., Small Business
  Management Res. Rpt., 64 pp. May 1961.
- STONE, R. N.

  Current timber growth estimates for the Lake States.
  U.S. Forest Serv. Lake States Forest Expt. Sta. Tech.
  Note 604, 2 pp. 1961.
- STONE, R. N.

  Preliminary report on the survey of forest plantations in northern Lower Michigan. Mich. Acad. Sci. Arts and Let. Papers 45(1): 93–102. 1960.
- STONE, R. N., and BAGLEY, W. T.

  The forest resource of Nebraska. U.S. Forest Serv.
  Rocky Mountain Forest and Range Expt. Sta. Forest
  Survey Release 4, 45 pp. 1961.
- STONE, R. N., and CHASE, C. D.

  Forest plantations of northern lower Michigan. U.S.

  Forest Serv. Lake States Forest Expt. Sta. Paper 102, 30 pp. 1962.
- STONE, R. N., and THORNE, H. W.
  Wisconsin's forest resources. U.S. Forest Serv. Lake
  State Forest Expt. Sta. Paper 90, 52 pp. 1961.
- TOOLE, A. W.
  Opportunity for new wood industries: the Lake
  States forest resource. Forest Prod. Jour. 10(1):
  51-54. 1960.

#### Southern United States

- AMERICAN FOREST PRODUCTS INDUSTRIES 51
  Oklahoma forest facts, 1961. Idabel, Okla., 12 pp. 1961.
- AMERICAN FOREST PRODUCTS INDUSTRIES 52 Virginia forest facts, 1961. Washington, 15 pp. 1961.

53

- AMERICAN FOREST PRODUCTS INDUSTRIES and ARKANSAS FOREST INDUSTRIES COMMITTEE

  Arkansas forest facts. Fordyce, 15 pp. 1962.
- ARTMAN, J. O. 54
  Forestry—a big and growing business. South.
  Lumberman 204 (2539): 35, 38, 40. Jan. 1962.
  Tennessee Valley.
- BRIEGLEB, P. A. 55 Forestry progress in the South—a report. (condensed.) Forest Farmer 22(3): 6-8, 15-17. Dec. 1962.
- COMER, F. G. 56
  The role of the pulp and paper industry in Alabama's Piedmont. Ala. Acad. Sci. Jour. 31(4): 253-257. Apr. 1960.

- FOREST FARMER

  Basic timber resource statistics for the fifteen Southern States. Forest Farmer 21(7): 20–21. See also Forest Farmer 20(7): 22–23. 1961, and 19(7): 18–31. Mar. 1960.
- FOSCUE, E. J. 58
  East Texas: a timbered empire. South. Methodist
  Univ. Grad. Res. Center Jour. 28(1), 60 pp. Apr.
  1960.
- LARSON, R. W. 59 South Carolina's timber. U.S. Forest Serv. Southeast. Forest Expt. Stat. Forest Survey Release 55, 38 pp. Aug. 1960.
- LARSON, R. W., and GOFORTH, M. H. 60 Florida's timber. U.S. Forest Serv. Southeast. Forest Expt. Sta. Forest Survey Release 57, 77 pp. 1961.
- LARSON, R. W., NICHOLS, A. C., and GO-FORTH. M. H.

  Three percent increase in two decades; pine volume moves up in Southeast. Forest Farmer 21(3): 14-15. Dec. 1961.
- LARSON, R. W., NICHOLS, A. C., and GO-FORTH, M. H.

  Timber trends in the southeast. U.S. Forest Serv. Southeast. Forest Expt. Stat. Forest Survey Release 58, 16 pp. Nov. 1961.
- ROSE, B. B., and BRAMLETT, G. A. 63
  Timber and wood products in the economic development of the Coosa Valley area of Georgia. Athens, Ga. Agr. Expt. Stat. Bul. 91, 33 pp. Feb. 1962.
- SAMSON, N. T. 64
  Texas wood surplus can support twelve pulp mills.
  Timberman 62 (11): 38–39, 64. Oct. 1961.
- SIZEMORE, W. R.

  Timber resources in the Alabama Piedmont.
  Acad. Sci. Jour. 31(4): 295–301. Apr. 1960.
- STERNITZKE, H. S. 66
  Alabama has millions of tons of resinous stumpwood available. Naval Stores Rev. 71(8): 10-11. Nov. 1961.
- STERNITZKE, H. S. 67 Arkansas forests. U.S. Forest Serv. South. Forest Expt. Sta. Forest Survey Release 84, 58 pp. 1960.
- STERNITZKE, H. S. 68 Arkansas forests revisited. South. Lumberman 201 (2513): 131–133. Dec. 1960.
- STERNITZKE, H. S. 69 The hardwoods of mid-America. Forest Farmer 21 (8): 10-11, 26. 1962.
- STERNITZKE, H. S. 70 How much timber? Where? Forests & People 12 (2): 30-31, 45. 2d Quart. 1962. Louisiana.
- STERNITZKE, H. S. 71 Mississippi forest atlas. U.S. Forest Serv. South. Forest Expt. Stat. 48 pp. 1962.
- STERNITZKE, H. S. 72
  Tennessee forest acreage increasing. U.S. Forest Serv. South. Forest Expt. Stat. South. Forestry Notes 136. Nov. 1961. Also as More timber in timber in Tennessee. South. Lumberman 204 (2539): 51. Jan. 1962.

- STERNITZKE, H. S. 73
  Tennessee forests. U.S. Forest Serv. South, Forest Expt. Sta. Forest Survey Release 86, 29 pp. 1962.
- STOVER, W. S.

  Bring us mills to match our trees. Forests & People 10(2):11-17. Second Quart. 1960.

  Pulpwood markets.
- TODD, A. S., and YOHO, J. G. 75 Forestry in the southern economy. Jour. Forestry 60 (10): 694-704. Oct. 1962.
- U.S. FOREST SERVICE 76
  Potential timber supplies and forest industrial development in the Southeast River Basins. 38 pp.
  Washington, 1961.
- U.S. FOREST SERVICE SOUTHEASTERN
  FOREST EXPERIMENT STATION
  South Carolina's timber. Forest Survey Release 55,
  103 pp. 1960.
- U.S. TENNESSEE VALLEY AUTHORITY, DIVISION OF FORESTRY DEVELOPMENT 78
  Forest inventory statistics for: Alcorn County, Miss., Forestry Bul. 105. Henderson County, N.C., Forestry Bul. 108. Norris, 17 pp. each. 1962.
- U.S. TENNESSEE VALLEY AUTHORITY, DIVISION OF FORESTRY RELATIONS 79
  Forest inventory statistics for: Cocke County, Tenn., Forestry Bul. 64. Hawkins County, Tenn., Forestry Bul. 65. Decatur County, Tenn., Forestry Bul. 66. Henderson County, Tenn., Forestry Bul. 67. Meigs County, Tenn., Forestry Bul. 68. Rhea County, Tenn., Forestry Bul. 69. Bledsoe County, Tenn., Forestry Bul. 70. Towns County, Ga., Forestry Bul. 71. Fannin County, Ga., Forestry Bul. 72. Union County, Ga., Forestry Bul. 73. Marshall County, Ky., Forestry Bul. 74. Morgan County, Ala., Forestry Bul. 75. Jackson County, N.C., Forestry Bul. 76. Beech River Watershed, Forestry Bul. 77. Yellow Creek Watersheds, Forestry Bul. 78. Maury County, Tenn., Forestry Bul. 83. Norris, 15 pp. each. 1960.
- U.S. TENNESSEE VALLEY AUTHORITY, DIVISION OF FORESTRY RELATIONS 80
  Forest inventory statistics for: Marshall County, Tenn., Forestry Bul. 97. Duck River Watershed, Tenn., Forestry Bul. 98. Bear Creek Watershed, Ala., and Mississippi, Forestry Bul. 100. Limestone County, Ala., Forestry Bul. 101. Franklin County, Ala., Forestry Bul. 102. Norris, 16 pp. each. 1961.
- WHEELER, P. R. 81 Southern forest regions. Forest Farmer 20(7): 24-27. March 1961.
- WHEELER, P. R. 82 Southern trees by the billions. Forest Prod. Jour. 12: 325-327. 1962.
- WHEELER, P. R.
  Southern wood supplies—today and tomorrow. The
  Unit, News Letter 90, pp. 9–11. August 1961.

#### Western United States

AMERICAN FOREST PRODUCTS INDUSTRIES 84
Montana forest facts, 1960–1961. Washington, 16
pp. 1961.

- BARGER, R. L., and HUEY, B. M. 85 Colorado lumber—good product, right size. Colo. State Univ. Expt. Sta. Tech. Bul. 71, 18 pp. 1961.
- BERGER, J. M. 86
  Forest statistics for Okanogan County, Washington.
  U.S. Forest Serv. Pacific Northwest. Forest & Range
  Expt. Sta. Forest Survey Rpt. 139, 29 pp. 1962.
- BONES, J. T., and SIMONSON, J. E. 87 Forest statistics for southeast Washington. U.S. Forest Serv. Pacific Northwest. Forest and Range Expt. Sta. Forest Survey Rpt. 136, 40 pp. 1960.
- GRANTHAM, J. B. 88 Availability and use of wood for pulp in the Pacific Northwest. Tappi 43(7): 218A-221A. July 1960.
- HANSON, P. D.
  Alaskan forest resources, their potential. West.
  Forestry & Conserv. Assoc. Proc. 51: 48–51. 1960.
- HERRINGTON, R. B. 90
  Resource base for expanded markets in the Mountain States. Thesis (M.F.), Mont. State Univ. 1962.\*
- JOHNSON, W. H.
   Timber cut drops in 1960 in Region One. West.
   Conserv. Jour. 18(1): 32-33, 36-37. Jan./Feb. 1961.
- MINORE, D. 92
  Forest statistics for Grant County, Oregon. U.S.
  Forest Serv. Pacific Northwest. Forest & Range
  Expt. Sta. Forest Survey Rpt. 137, 29 pp., November
  1960.
- NELSON, R. E. 93 Forest products harvested in Hawaii: 1958 and 1960. U.S. Forest Serv. Pacific Southwest. Forest & Range Expt. Sta. Misc. Paper 71, 3 pp. 1962.
- ROGERS, G. W. 94
  Alaska in transition; the southeast region. Baltimore: Johns Hopkins Press, for Resources for the Future, Inc., 384 pp. 1960.

Chapter III, The region's natural resources, pages 71–85 covers timber resources and wood products.

- SPADA, B. 95
  Forest statistics for following countries in Washington: Pierce, Island and Kitsap, King, Jefferson, Clallam. U.S. Forest Serv. Pacific Northwest. Forest & Range Expt. Sta. Forest Survey Rpt. 141–145, 26 pp. 1962.
- STONE, J. H. 96
  Pacific NW region has timber wealth. West. Conserv. Jour. 17(4): 20-23, 29. July/Aug. 1960.
- U.S. CONGRESS, SENATE 97
  National forests in Wyoming: basic facts; remarks of
  Senator Gale W. McGee on Wyoming's national forest
  timber resources, together with a report of National
  Forest Service. Washington, 86th Cong., 2d sess., S.
  Doc. 132, 44 pp. 1961.
- WASHINGTON DEPARTMENT OF NATURAL RESOURCES
  Annual timber harvest report. Olympia, Wash.
- WEST COAST LUMBERMEN'S ASSOCIATION 99 1957–1958 statistical year book. Portland, Oreg., 20 pp., Feb. 1960. Western Oregon and Western Washington.

- WILSON, A. K. 100
  Forest products output in Utah in 1960. U.S. Forest
  Serv. Intermountain Forest & Range Expt. Sta. Forest Survey Release 4, 8 pp. 1962.
- WILSON, A. K. 101 Timber resources of Idaho. U.S. Forest Serv. Intermountain Forest & Range Expt. Sta. Forest Survey Release, 3, 42 pp. 1962.
- ZIVNUSKA, J. A. 102
  The public timber resource of the West. Soc. Amer. Foresters Proc. 1959: 78–79. 1960.

CANADA

BEST, A. L. 103
The forestry outlook in Canada. Forestry Chron. 36(3): 260-264. Sept. 1960.

104

CANADA DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES, FORESTRY BRANCH Canada's forests 1960. 8 pp. Ottawa, 1960.

CANADIAN BUREAU OF STATISTICS, IN-DUSTRY AND MERCHANDISING DIVISION 105 Candian forestry statistics, 1959. 23 pp. Ottawa, Ontario: Queen's Printer. 1960.

CANADIAN BUREAU OF STATISTICS, IN-DUSTRY AND MERCHANDISING DIVISION 106 Canadian forestry statistics, 1959. 71 pp. rev. Ottawa, Ontario: Queen's Printer. 1960.

CANADIAN BUREAU OF STATISTICS, IN-DUSTRY AND MERCHANDISING DIVISION 107 Canadian forestry statistics, 1961. 24 pp. Ottawa, Ontario: Queen's Printer. 1962.

- COPES, P. 108
  The place of forestry in the economy of Newfoundland. Forestry Chron. 36(4):330-341. Dec. 1960.
- GILL, C. B.

  The forests of Manitoba. Rpt. No. 10. Forest Resources Inventory. Winnipeg, Manitoba Forest Service, 43 pp. 1960.

  Summarizes the survey work completed in 1956.
- LOVE, D. V. 110
  Potentialities of the forest resource base. Resource
  Tomorrow Conf. Background Papers 2:641-660.
  1961.\*
- MANITOBA FOREST SERVICE 111
  Forest resources inventory, 1956; Rpt. No. 8
  Southwest. Forest Sect. and the uncruised portion of
  the Accessible area of Manitoba. 32 pp. Winnipeg.
  1960.
- MANITOBA FOREST SERVICE 112
  Forest resources inventory, 1956; Rpt. No. 9, Inaccessible area of Manitoba. 32 pp. Winnipeg, 1960
- MONK, D. R.

  Forest wealth attracts industry in coastal and interior British Columbia. West. Conserv. Jour. 17 (5):14-17. Sept./Oct. 1960.
- ONTARIO DEPARTMENT OF ECONOMICS 114
  Eastern Ontario Region.—economic survey. Ontario
  Dept. Economics, 126 pp. 1960.
  Forestry and forest-based industries statistics, pp. 7–12.

ONTARIO DEPARTMENT OF ECONOMICS
Ontario economic and social aspects survey. Ontario
Dept. Economics. 337 pp., March 1961.

Forest based industry on pp. 106-113, and appendix

210-216, 278.

POGUE, H. M.

Underdeveloped forests of British Columbia. West.
Forestry & Conserv. Assoc. Proc. 51: 51-54. 1960.

SYMINGTON, D. F. 117
Forest resources in Saskatchewan. Saskatchewan, Dept. Natural Resources Conserv. Bul. 8, 22 pp. 1960.

#### OTHER AREAS

ARTHUR-DAVIES, J. T.

A study of the forest resources and wood-using industries of Brazil. Thesis (M.F.), State Univ. of N.Y. Col. of Forestry, Syracuse. 1961.

BOBONE, M. L. 119 Importance économique de la forêt Portugaise. (The economic importance of Portuguese forests.) Fifth World Forestry Cong. Proc. 1960:1091-1094. 1962.

FISCHER, F. 120 Switzerland and its forests. A synthesis of middle-European forestry ideas. Corvallis, Oreg. State Col. School of Forestry, 56 pp. 1960.

HEINSDIJK, D., SOARES, R. O., and HAUFE, H. 121
The future of the Brazilian pine forests. Fifth
World Forestry Cong. Proc. 1960: 669-673. 1962.
Findings of a pilot forest survey in the State of
Santa Catarina.

KANG, H. 122 Forestry progress in Taiwan, Republic of China. Fifth World Forestry Cong. Proc. 1960:1114-1118. 1962.

MOMIN, M. A. 123
Forest resources of East Pakistan and their commer-

cial and economic importance. Com. & Indus. 6(7): 30-34. Sept. 1962, continued in 6(8): 23-26. October 1962.

Includes listing of wood-using industries.

TOLBERT, S. A. 124
Forestry development in Liberia. Fifth World Forestry Cong. Proc. 1960: 1041-1043. 1962.

U.S. FOREST SERVICE 125
Forestry and forest industry in the U.S.S.R.; report of a technical study group. Washington, 92 pp. 1961

Report of a seven-man team visiting Russia in 1959.

# POLICIES, PROGRAMS, AND THEIR ADMINISTRATION

(See also Agents of Production in Forestry—Forest Owner.)

#### GENERAL

ANDERSON, J. 126
Norway: woodlots at work. Amer. Forests 66(8): 38-40, 76-79. Aug. 1960.
A review of policy and its impact on the forest

economy.

775-671--65---2

BARRETT, L. I.

A program for small forest ownerships. Forest Farmer 20(4): 6-12, 20-22. Jan. 1961.

COMPTON, W.

Forestry under a free enterprise system. Amer.
Forests 66(8): 26-27, 50-54. Aug. 1960.

An historic review of the laws and policies regulating forestry in the United States.

FALK, H. W.

Acquiring long term control of timber. Yale Univ.
School Forestry, Indus. Forestry Seminar, Longview,
Wash., Oct. 12–23, 1959. 8 pp. 1960.
Economic benefits of legal procedures.

FOREST DEPARTMENT, UNION OF BURMA 130
Policy and economic problems in the conversion of
old-growth forests to managed stands in Asia. Fifth
World Forestry Cong. Proc. 1960: 1019–1023. 1962.

FROLUND, H. 131
Means of promoting forestry on small woodlots in Denmark. Fifth World Forestry Cong. Proc. 1960: 1158–1162. 1962.

HINMAN, J. H. 132
The forests of the future. Jour. Forestry 59(12): 873-877. Dec. 1961.
Policy.

LAMB, A. F. A.

Policy and economic problems in the conversion of old-growth forests to managed stands in South America. Fifth World Forestry Cong. Proc. 1960: 1009–1013. 1962.

Includes effect on markets and wood-using industries, especially sawmills.

MANTEL, K. 134

The formulation of forest policy in consequence of the role of timber supply and requirements analysis. Fifth World Forestry Cong. Proc. 1960: 1053–1055. 1962.

MASON, D. T.

Policy and economic problems in the conversion of old-growth forests to managed stands in North America. Fifth World Forestry Cong. Proc. 1960: 1014–1017. 1962.

Mostly United States.

PEPLER, W. A. E. 136
Review and assessment of present forest policies.
Pulp and Paper Mag. Canada 62(12): 125-128.
Dec. 1961.

QUINNEY, D. N. 137

The "farm woodlot" revisited. Jour. Forestry 59
(8): 601-602. Aug. 1961.

Changes in occupation class of small-woodland owners.

SWINGLER, W. S. 138
Help for the owners of small forests. South. Lumberman 201 (2513): 148–150. Dec. 15, 1960.

TWISS, R. H.

An approach to the study of natural resources policy:
the Porcupine Mountains controversy. Thesis
(Ph. D.), Univ. Mich. 1962.\*

_					
$\mathbf{D}$	TI	T	т	T	

#### General

TSEPLYAYEV, V. P. 140 Forestry development in the U.S.S.R. Fifth World Forestry Cong. Proc. 1960: 210–215. 1962.

VASILIEV, P. V. 141 Certain questions on the forestry policy in the U.S.S.R. Fifth World Forestry Cong. Proc. 1960: 157–160. 1962.

#### United States Federal

BARRETT, L. I.

Outlines of a program for small forest ownerships.
Supplement to What's Happening in Forestry, 18 pp.
Assoc. Consulting Foresters, Washington, D.C.
Nov. 16, 1960.

A plan for allocation of government funds for management of small forest plantations.

BERGOFFEN, G. S. 143
The multiple use-sustained yield law: a case study of administrative initiative in legislative policy-forming process. Thesis (M.F.), State Univ. N.Y. Col. Forestry. 1961–62.

ISE, J.Our national park policy; a critical history. 701 pp.Johns Hopkins Press, Baltimore. 1961.

JAMES, G. S. 145
The multiple use act and the national forests.
South. Lumberman 201(2513):144-145. Dec. 15, 1960.

JAMES, L. M., and SCHALLAU, C. H. 146 Forestry practices under the agricultural conservation program. Land Econ. 37(2):142-149. May 1961.

MASON, I. J. 147
The economics of public timber sale programs. Soc. Amer. Foresters Proc. 1959; 80–82. 1960.
Western states.

McCLOSKEY, J. M.

The meaning of the Multiple Use-sustained Yield Act of 1960. Oreg. Law Rev. 41: 49–77. Dec. 1961.

Text of Act appears as appendix.

MEAD, W. J. 149
Public policy and economic development. Soc. Amer.
Foresters Proc. 1959: 91–93. 1960.
Forest Service timber sales.

PETERSON, E. L. 150
Forestry in evolution. Pacific Logging Cong. Loggers Handb. 20 (sect. 2):10–15. 1960.
Policies and programs with respect to national forests.

U. S. CONGRESS, SENATE COMMITTEE ON INTERIOR AND INSULAR AFFAIRS 151

The Wilderness Act. Hearings, 87th Cong., 1st sess., on S. 174, a bill to establish a national wilderness preservation system for the permanent good of the whole people, and for other purposes, February 27 and 28, 1961. 439 pp. Washington, D.C. 1961.

Includes statements and testimony on the effects

of the bill on the forestry program.

U.S. FOREST SERVICE 152
Operation multiple use; program for the national forests. U.S.D.A. Paper 424, 17 pp. July 1960.

# United States State and Local

Northern United States

DANA, S. T. 153
Forest ownership in Minnesota—problems and prospects. Amer. Forests 66(10): 32–38, 48, 50, 52, 57–58, 60. Oct. 1960.

HAMILTON, L. S.

An analysis of New York States' Forest Practice Act.
Thesis (Ph. D.), Univ. Mich. 278 pp. 1962.

SOLBERG, E. D. 155
New laws for new forests: Wisconsin's forest-fire, tax, zoning, and county forest laws in operation. 611 pp. Univ. Wis. Press, Madison. 1961.

Programs and laws enacted to allow orderly transition of cutover and burned over forest lands to productive timber lands.

Western United States

FOLWEILER, A. D. 156
State forestry agency and the small private forest.
West. Forestry and Conserv. Assoc. Proc. 52: 79-81.
1961.

FREGREN, D. H.
Timber policies of Canada. Thesis (M.F.), Mont.
State Univ. 1960.\*

#### FINANCE

(See also AGENTS OF PRODUCTION IN FOR-ESTRY, Capital, General, investment.)

#### TAXATION

BALLAINE, W. C. 158
Taxes and the conservation of privately owned timber. Land Econ. 26(3): 279–285. Aug. 1960.
Use of economic theory in determining effect of taxes upon conservation decisions.

BARCLAY, H. I.

The tax effects of form of ownership of timberlands and changes in the form of ownership. Yale Univ. School Forestry, Indus. Forestry Seminar Bul. 66: 81-92. 1960.

BRIGGS, C. W. 160
The stake of forest land owners in federal tax proposals. Forests and People 12(2):17, 36-37, 42.

A survey on proposed changes in the federal tax structure.

BRIGGS, C. W. 161
The 1960 tax regulations dealing with timber depletion. Forest Farmer 19(9): 6-8. May 1960.

BRIGGS, C. W. 162
Present tax treatment of capital gains in the United States. Forest Farmer 20(4):13-14, 18, 20, 23.
Jan. 1961.

CALLAHAN, J. C. 163
Income tax implications of forest inventory. Purdue Univ. Forest Mangt. Control Conf. Proc. 1960: 108–113. 1960.

Role of growth data in calculating timber depletion.

164 Some recommendations for tree farm assessment in British Columbia, Forestry Chron. 37(1):29-34. Mar. 1961. For taxation.

- 165 COUNTRYMAN, D. Forest products and income taxes. Iowa State Jour. Sci. 34(4): 545-549. May 15, 1960.
- CRAIG, G. A., and others. Taxation principles to encourage reforestation. Commonwealth Club Calif. Trans. 56(3): 1-64.

N. B. Livermore, J. G. Miles, and W. E. Pratt, joint

authors.

- FALK, H. W. 167 Ad valorem taxes. Yale Univ. School Forestry, Indus. Forestry Seminar, Longview, Wash., Oct. 12-23, 1959. 8 pp. 1960.
- JAMES, L. M. 168 Property taxes and alternatives for Michigan. Jour. Forestry 58(2): 86-92. Feb. 1960.
- JOHNSON, R. S. Three alternatives in forest taxation. Forestry Chron. 38(3):283-291. Sept. 1962.

The property tax, taxation based on productive capacity assessment, and the forest yield tax.

- A possible approach to forest land taxation. Mont. Forest and Conserv. Expt. Sta. Bul. 22, 15 pp. 1962.
- LINIGER. P. F. Direct taxes on land and timber in the Douglas fir region. Yale Univ. School Forestry, Indus. Forestry Seminar, Longview, Wash., Oct. 1959, 17 pp. 1960. Washington and Oregon.
- MASON, D. T. 172 Ad valorem taxation and the future of the forest industry in Oregon. Pacific Logging Cong. Loggers Handb. 20 (sect. 1): 17-24. 1960.
- McGOWIN, J. F. 173 Ad valorem taxes on timberland in Alabama. Ala. Forest Prod. 3(9): 4, 10-12. Sept. 1960.
- MIGLICCO, A. 174 Tax tips for small timber owners. Forests and People 12 (4): 10-11, 44-45. 1962.
- MOORE, A. M. Taxation and tenures as they affect forest management. Resources Tomorrow Conf. Background Papers 2: 695-702. 1961.\*
- OREGON STATE TAX COMMISSION Timber taxation in Oregon-an analysis and recommendation to the Legislative Interim Tax Study Committee. 35 pp. plus bibliography. Salem, Oreg. Feb. 1960.

Includes information about bills introduced in the Oregon Legislature pertaining to ad valorem and other methods of timber taxation.

PANEL Forest taxation. Wash. State Forestry Conf. Ann. Mtg. 40:33-54. 1961. Moderator: G. Shipmen; members: G. D. Sandison,

W. Fransen, J. C. Pauley.

- RAMSING, K. D. Forest taxation. The West. Econ. Jour. 1(1): 66-80. Fall 1962. Income, property, yield, and severance taxes.
- 179 SAMSON, N. T. Capital gains-federal income tax. Jour. Forestry 59(5): 335-340. May 1961.
- SAMSON, N. T. Timber depletion-federal income tax. Jour. Forestry 59(1): 8-14. Jan. 1961.
- SHEEHAN, L., and VAN HORN, J. Timber capital gains and holding period. Timberman 61(4):44-45. Apr. 1960.
- SIEGEL, W. C., and PERRY, J. D. 182 Forest taxation in Louisiana. U.S. Forest Serv. South. Forest Expt. Sta. Occas. Paper 187, 14 pp. 1961.
- SIZEMORE, W. R. 183 Influence of taxes on forest management policy. Forest Farmer 20(1): 18-19, 34. Oct. 1960.
- SKOK, R. A. 184 Minnesota tree growth tax law. Minn. Forestry Note 107, 2 pp. 1961. Special tax option applying to managed forest lands open to public hunting and fishing.
- STAEBNER, R. C. 185 Timber taxation in operation. Forest Farmer 20(7): 107-109. Mar. 1961. Also in 21(7): 101-103. Mar. 1962.
- SUTHERLAND, C. F., Jr., and WILLIAMS, E. T. 186 Some aspects of forest taxation under the Forest Crop Law and under the general property tax in Wisconsin. Land Econ. 36(1): 65-78. Feb. 1960.
- TRESTRAIL, R. W. An analysis of alternative methods of forest taxation: their effects on real forest investment and social value yields not subject to capture by the owner. Thesis (Ph. D.), Univ. Wash. 1961.
- VAUX, H. J. Young-growth timber taxation in Mendocino County: an economic analysis. Calif. Agr. Expt. Sta. Bul. 780, 89 pp., Berkeley, Calif. 1961.
- 189 WACKERMAN, A. E. Keeping faith with forest farmers. Amer. Forests 68(5): 12-17, 55-56, 58-59, 61-63. May 1962.
- WHITAKER. M. Income tax problems of large forest properties. Yale Univ., School Forestry, Indus. Forestry Seminar Bul. 66: 70-80. 1960.
- WILLIAMS, E. T. Changing pattern in forest taxation; a year end appraisal of death, severance and property taxes as they relate to forest farming. Forest Farmer 21(4): 12-13, 15-19. Jan. 1962.
- WILLIAMS, E. T. Federal income tax tips for the Christmas tree grower and small timber owner. Amer. Christmas Tree Growers' Jour. 5(4): 19-21, 33. Nov. 1961.
- WILLIAMS, E. T. Trends in forest taxation. Nat. Tax Jour. pp. 113-144. Jun. 1961.

ZIVNUSKA, J. A. 194
The tax burden on forest plantations. Paper presented to Forests and Recreation Sect., Commonwealth Club Calif., Mar. 31, 1960. 8 pp. mimeo. 1960.\*

#### VALUATION

ANDERSON, W. C. 195 A method of appraising pine sawtimber in South Carolina. U.S. Forest Serv. Southeast. Forest Expt. Sta. Paper 122, 15 pp. 1961.

BAYLESS, B. J. 196 Negotiating public utility easements on timberlands. Jour. Forestry 59(6): 433-437. Jun. 1961.

BRUNS, P. E. 197 How foresters can determine fair market valuation of timberlands. Timberman 61(10):43, 79. Sept. 1960.

CALIFORNIA STATE BOARD OF EQUALIZATION 198
Assessors' handbook—the appraisal of timber property. 118 pp. Sacramento, Calif. 1960.

CRAIG, G. A.

Present Forest Service methods suggest how to appraise low-value species to provide a normal profit opportunity in mixed-timber sales. Timberman 62 (13): 42–43. Dec. 1961.

CRAIG, G. A.

A suggested method for establishing the profit allowance in Forest Service timber appraisals. West. Lumber Mfrs., Inc. Mimeo. No. 580. 1960.

CRAIG, G. A. 201 Trade roads for public stumpage. West Conservation Jour. 19(4 and 5): 30–32. July/Oct. 1962.

Policy of deducting road construction costs from stumpage values of Forest Service timber sales in Washington, Oregon, and California.

ELLIS, R. M. 202
Methods and practices; appraising timber for eminent domain. Appraisal Jour. 28(3): 301–317.
July 1960.

FRAZIER, G. D., and CARNEY, R. B. 203 Computing average log values for timber appraisals using IBM 650 or Univac solid state 80 computers. U.S. Forest Serv. Pacific Southwest. Forest and Range Expt. Sta. Tech. Paper 54, 16 pp. 1961.

HALL, O. F. 204
Forest valuation using inventory data. Purdue
Univ. Forest Management Control Conf. Proc. 1960:
199-207. 1960.

Three types of value of a forested property: (1) Value for immediate liquidation, (2) market value for continuous production, (3) strategic value to a single owner.

HUNT, E. R., and BELL, J. F. 205
The valuation of immature timber stands and the processing of the data by electronic machines. Jour. Forestry 59(6): 416–419. June 1961.

KOROSI, J. J. 206
Appraising timberlands for taxation purposes. The Consultant 7(4): 15-19. October 1962.

A discussion of a timber valuation manual providing simplified guidance in assessment problems in the State of Washington.

LUNDGREN, A. L. 207 A graphical method of compounding and discounting for use in forest valuation problems. Jour. Forestry 60(2):136-138. Feb. 1962.

MILLER, R. M., and ROOF, S. D. 208
Automatic processing of timber appraisal cruises.
U.S. Forest Serv. Pacific Southwest. Forest and
Range Expt. Sta. Tech. Paper 74, 25 pp. 1962.

An IBM 704 and 7090 FORTRAN MONITOR program has been designed to meet the needs of the timber appraiser for volume, value, and overrun of the species having net volume taper tables. Summary tables are produced for the average appraisal in less than 4 minutes on the IBM 7090 computer.

NELSON, F. B. 209 Stumpage appraisal—the large sale. Northeast. Logger 10(3): 14-15, 30-31. Sept. 1961.

ORRELL, C. D. 210
Techniques and procedures; appraising forest land.
Forest Farmer 20(1): 20-21, 26. Oct. 1960.
Also in 20(7): 98-100. March 1961, and 21(7): 92-94. March 1962.

TESSIER, J. P., and KER, J. W. 211 Stumpage appraisal on the UBC Research Forest II. British Columbia Lumberman 45(12): 16-17. 1961.

#### INSURANCE

PARDO, R. 212
A bold step forward. Amer. Forests 66(3): 17, 40.
March 1960.
Fire insurance, State of Washington.

RUSH, J. D. 213

Forest insurance in the United States. Agr. Finance
Rev. 22: 70-79. Sept. 1960.

WAITT, M. G. 214
Forest fire insurance—1961. Forest Farmer 20(7):
67. March 1961.

WEATHERBY, H. 215 Standing timber insurance. Timber Canada 22(7): 44-48, 58. July 1961. Fire.

WILLIAMS, E. T. 216
A new forest fire insurance program. Jour. Forestry 59(5): 376–377. May 1961.
Southern rates and coverage.

#### RESEARCH

(For research on specific topics, see those topics.)

# GENERAL

COPISAROW, A. C. 217
Forest products research in the national economy.
Inst. Wood Sci. Jour. 9: 3-11. April 1962.\*

DOSKER, C. B. 218
Product development—keystone to expanded markets. Forest Prod. Jour. 11(9): 423-425. Sept. 1961.

GARRATT, R. M. 219
Research and development in forest products. Yale
University, School of Forestry Industrial Forestry
Seminar 1959, 18 pp. 1960.

MARCUS, L. F., GOULD, E. M., and BURY, R. L. 220 Measuring the recreation use of national forests. U.S. Forest Serv. Pacific Southwest. Forest and Range Expt. Sta. Tech. Paper 59, 26 pp. 1961.

McCLAY, T. A. 221
Forest Service research in the field of timber prices and marketing. U.S. Dept. Agr. Market. Serv. AMS 480: 243-246. July 1962.

U.S. FOREST SERVICE EXPERIMENT STATION 222

Annual report of completed and current research issued by each of the nine stations—Pacific Northwest. Pacific Southwest, Intermountain, Rocky Mountain, Lake States, Southern, Southeastern, and Northeastern Forest Experiment Stations.

Contains forestry economics section.

#### NORTHERN UNITED STATES

HOLLAND, I. I. 223
Research needed to make Illinois woodlands an economic asset. Ill. Res. 2(4): 10–11. Fall 1960.

LA PAGE, W. F. 224

Measurement and significance of recreation experience—a case study of camper satisfaction. Thesis (M.F.), Univ. N.H. 1962.\*

U.S. FOREST SERVICE, LAKE STATES
FOREST EXPERIMENT STATION 225
Outdoor recreation in the Upper Great Lakes Area;
proceedings of a seminar in research needs. Lake
States Forest Expt. Sta., Sta. Paper 89, 104 pp.
1961.

#### SOUTHERN UNITED STATES

SMITH. W. R. 226
The impact of research on the paper and pulp industry. South. Pulp and Paper Mfr. 23(1): 84-86.
Jan. 11, 1960.

Also in Tappi 43(5): 30A, 32A, 34A, 36A. May

#### WESTERN UNITED STATES

U.S. FOREST SERVICE INTERMOUNTAIN
FOREST AND RANGE EXPERIMENT STATION, DIVISION OF FOREST ECONOMICS
RESEARCH AND DIVISION OF FOREST
MANAGEMENT RESEARCH
227
Developing the data framework for effective timber
management. Misc. Pub. 25, 13 pp. Ogden, Utah.

PROFESSIONAL ACTIVITIES, EDUCATION, EMPLOYMENT OF FORESTERS

DUERR, W. A., and HOPKINS, F. S. 228 Teaching forestry economics. Iowa State Jour. Sci. 34(4): 507–512. May 15, 1960.

EYRE, F. H. 229
Professional income of foresters—1959. Jour. Forestry 58 (12): 952–956. Dec. 1960.
Breakdown by region, employer, degree, and experience.

HANABURGH, D. H. 230 Your future in forestry. 159 pp. Richards Rose Press, New York. 1961. Chapter VIII, Technical employment, pages 69 through 85, covers specialized fields in forestry em-

through 85, covers specialized fields in forestry employment including economics, marketing, taxation, forest finance, and insurance.

STOLTENBERG, C. H. 231 Goals for professional progress. Amer. Forester 48: 8-10. 1961.

TAYLOR. N. E. 232
Business education and the forest industries. Forest Prod. Jour. 11(6): 264–266. June 1961.

VAUX, H. J. 233
Twenty years of population and forestry advances.
Soc. Amer. Foresters Proc. 1959: 9-12. 1960.

ZIVNUSKA, J. A. 234
Identifying and guiding future forestry researchers from the viewpoint of forest economics. Soc. Amer. Foresters Proc. 1959: 160–161. 1960.

# AGENTS OF PRODUCTION IN FORESTRY

(See also the individual operations or products in Sections—FOREST MANAGEMENT, FORESTRY INDUSTRY, and FOREST-PRODUCT DEMAND.)

#### LABOR

(Some material on labor, especially in specific industry, will be found under FOREST INDUSTRY.)

#### GENERAL

BUCK, D. E. 235
Management of human resources in Canadian forestry. Canad. Pulp and Paper Indus. 15(12): 56, 58, 60-62. Dec. 1962.\*

CARTER, J. E. F. 236 Woods labor review in Maine. Northeast. Logger 8(12): 18–19, 46. June 1960.

HAMILTON, H. R., and STOCK, J. R. 237
Special report on the aggressiveness of pulpwood crews to American Pulpwood Association. Battelle Mem. Inst., 8 pp. Columbus, Ohio. Sept. 14, 1962.
Results of a questionnaire and personal interviews with 40 pulpwood crews.

MURPHY, J. R. 238 Social security. Forest Farmer 20(7): 115-117. Mar. 1961. Also in 21(7): 109-112. Mar. 1962.

OREGON BUSINESS REVIEW 239
Employment changes: lumber and wood products industry. Oreg. Business Rev. 19(5): 10. May 1960.

PIKL, I. J. 240
The southern woods—labor "shortage" of 1955.
South. Econ. Jour. 27(1): ?. July 1960.

A study of the hypothesis that woods-labor "shortages" may have been responsible for depletion of mill inventories during the fall of 1955.

REYNOLDS, R. R., and ROW, C. 241 How many jobs will managed forest provide? Forests and People 12(4): 30–33. 1962. STEELE, H. E. 242 Changing personnel practices in the fast-growing southern pulp and paper industry. South. Pulp and Paper Mfr. 23(9): 50, 52, 54, 57, 60, 62. Sept. 10, 1960.

Employee selection and development practices, profit sharing and fringe benefits, and general background of employer-employee relationship.

#### UNIONS

BROMLEY, W. S. 243
Fair Labor Standards Act. Forest Farmer 19(7): 59-61. Mar. 1960.

Also in 20(7): 114-115. Mar. 1961.

HARBRON, J. D. 244
Labour: more strife in the woods? Current activity in Newfoundland highlights the organizational problems of Canada's wood unions. Canada Lumberman 81(8): 43–45. Aug. 1961.

#### WAGES, HOURS, PRODUCTIVITY

U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS 245
Industry wage survey—southern sawmills and planing mills. U.S. Dept. Labor Bul. 1361, 21 pp. June 1962.

U.S. DEPARTMENT OF LABOR, WAGE AND HOUR AND PUBLIC CONTRACTS DIVISION 246 Christmas tree producers and the Federal Wage-Hour Law. Amer. Christmas Tree Growers' Jour. 6(2):21-22,34. May 1962.

Exemptions applicable to Christmas tree producers.

WINER, H. I. 247 Methods of paying woods workers. Northeast. Logger 10(3): 8-9, 34-38. Sept. 1961.

COMPENSATION, SAFETY, OTHER WORKING CONDITIONS

JONES, A. 248
Rising costs of industrial accidents. Pacific Logging Cong. Loggers Handb. 20 (sect. 2): 37–38. 1960.
Logging.

KEANEY, J. V. 249
Workmen's compensation. Northeast. Logger 10
(4):18-19, 41. Oct. 1961.
Logging in Maine.

SHIPLEY, R. C. 250
Effects of an employer's safety practices on compensation costs. Northeast. Logger 10(4): 19, 42–43. Oct. 1961.
Logging and sawmilling.

# OWNER, OWNERSHIP, MANAGER, ENTREPRENEUR

(Considers forestry among other land uses; for material primarily on forest use, see FOREST MANAGEMENT. See also FORESTRY ECONOMICS AT LARGE; Policies, Programs, and Their Administration.)

#### GENERAL

CASAMAJOR, P., TEEGUARDEN, D., and ZIVNUSKA, J. A. 251
Timber marketing and land ownership in Mendocino County. Calif. Agr. Expt. Sta. Bul. 772, 56 pp. June 1960.
California.

HEYWARD, F. 252
How forest land ownership in the South affects the community. North Amer. Wildlife and Nat. Resources Conf. Trans. 25: 58-66. 1960.

#### PUBLIC

SISAM, J. W. B.

Survey and assessment of forest management practices on public lands. Resources Tomorrow Conf. Background Papers 2: 669–682. 1961.\*

Canada.

#### PRIVATE

#### General

BILLINGS, F. 254
Private forest lands must help meet recreational demands. West. Conserv. Jour. 17(2): 64-66.
Mar./Apr. 1960.

JOHNSON, R. S., and HOLT, L. 255 Survey and assessment of forest management practices on private lands. Resources Tomorrow Conf. Background Papers 2: 683–693. 1961.\*

KENISTON, R. F. 256
The forest owner—a person. Jour. Forestry 60(4): 249-254. Apr. 1962.

SEIGWORTH, K. J., and BARTON, J. H. 257
Initial forest management in the Tennessee Valley.
U.S. Tenn. Val. Auth., Div. Forestry Relat., 150 pp.
Norris, Tenn. 1961.
Examples of typical holdings.

#### Industrial Owner

YALE UNIVERSITY, SCHOOL OF FORESTRY 258
Financial management of large forest ownerships.
13th Indus. Forestry Seminar Bul. 66, 124 pp. New
Haven, Conn. 1960.

HAUBERG, J. H. 259
Intensified forestry as a private investment. West.
Forestry and Conserv. Assoc. Proc. 52: 63–67. 1961.
Tree farm in Washington.

# FARMER AND OTHER SMALL FOREST HOLDER

# General

ABETZ, K. 260 Economic problems of farm forestry. Fifth World Forestry Cong. Proc. 1960: 1164-1166. 1962. Germany.

ARTHUR, J. L. 261
A farmer forester's view. Jour. Forestry 60(6):
418-419. June 1962.
A reply to G. White's "Comments on 'What about

A reply to G. White's "Comments on 'What about farm forestry 1961?' " Jour. Forestry 59(12):901. Dec. 1961.

BARRETT, L. I. 262
Special problems of the small forest owner in the United States. Fifth World Forestry Cong. Proc. 1960: 1137-1148. 1962.

BRUNER, M. H., and MURPHY, H. E. 263 What assistance does the small timberland owner need? Forest Farmer 22(1): 10-11, 30-34. Oct. 1962.

As viewed by a landowner-educator and a consulting forester.

FISHER, J. O. 264
Future timber demands may be met with more production from present acreages. Pulp and Paper 36(10): 92-94. May 14, 1962.
Small woodlands.

INSERRA, P. 265
Industry warned to boost aid in small woodlands.
Pulp and Paper 36 (7): 49, 52–53. Apr. 2, 1962.
Opinions of pulp and paper woodland managers

from various regions of the United States.

LOWRY, S. T. 266
Comments on "What about farm forestry 1961?"
Jour. Forestry 60(2):141-142. Feb. 1962.
Refers to J. F. Preston article published in Jour.
Forestry 59(9):683-684.

MARTIN, I. R. 267
Some characteristics of non-managers of small woodlands. Thesis (M.F.), La. State Univ. 1960.

PRESTON, J. F. 268
What about farm forestry 1961? Jour. Forestry 59(9):683-684. Sept. 1961.

STODDARD, C. H. 269
The small private forest in the United States. Resources for the Future, Inc. 171 pp. Washington, D.C. 1961.

Significance of the small forest tract; economic, natural, and institutional factors; evaluation of

agencies and their programs.

THOMPSON, W. P., and YOHO, J. G. 270 Some basic misconceptions; defining the small forest ownership problems. Forest Farmer 20(12):6-8. Aug. 1961.

URQUHART, B. 271
Special problems of small woods. Fifth World
Forestry Cong. Proc. 1960: 1172–1174. 1962.
Stresses United Kingdom.

U.S. DEPARTMENT OF AGRICULTURE FED-ERAL EXTENSION SERVICE. 272 Characteristics of good and poor managers of small woodlands. USDA Res. Sum. 73. June 1961.

WHITE, G. 273
Comments on "What about farm forestry 1961?"
Jour. Forestry 59(12): 901. Dec. 1961.
Refers to article by J. F. Preston in Jour. Forestry

59(9): 683-684. Sept. 1961.

WYLIE, J. E. 274
Comments on "What about farm forestry 1961?"
Jour. Forestry 60(6): 416–418. June 1962.
Refers to J. F. Preston article in Jour. Forestry 59(9): 683–684. Sept. 1961.

YOHO, J. G. 275

Have we a valid basis for defining the small forest owner problem. Supplement to "What's Happening in Forestry," 10 pp. Washington. Feb. 1, 1961.

YOHO, J. G. 276 Small woodland owners; what is the problem? Pulp and Paper 36 (10): 89-91. May 14, 1962.

YOHO, J. G., and MUENCH, J. 277 What should we expect from our small private forests? Amer. Forests 68(1): 26-27, 44, 46, 48. Jan. 1962.

#### Northern United States

BAUMGARTNER, D. C. 278
Jackson County indicators of farm woodland owner
motives and values in woodland management and
marketing. Thesis (M.F.), South. Ill. Univ. 1962.\*

COLE, A. B., and SMITH, R. C. 279
The forest resources of rural householders in Dent
County, Missouri. Mo. Agr. Expt. Sta. Res. Bul. 740,
28 pp. Columbia, Mo. 1960.

COONEY, E. A. 280
Farm forestry utilization and financial returns.
Lincoln Col. Farmers' Conf. Proc. 11: 119–127. 1961.\*
Illinois.

HOLLAND, I. I., and BEAZLEY, R. I. 281 Independent factors in small woodland owner behavior in Illinois. Univ. Ill. Dept. Forestry Rpt. F-498, 35 pp. 1962.

HUTCHISON, O. K., and McCAULEY, O. D. 282
The small woodland owner in Ohio. U.S. Forest
Serv. Central States Forest Expt. Sta. Tech. Paper
183, 12 pp. 1961.

JAMES, L. M. 283
Farm woodlands and the timber economy of Michigan. Mich. Agr. Expt. Sta. Quart. Bul. 42(3): 563–583. Feb. 1960.

LENTZ, A. N., and MOORHEAD, G. R.

Managing the farm woodlot in New Jersey. N.J.
State Univ. Col. Agr. Ext. Bul. 341, 15 pp. 1960.

McCLAY, T. A. 285
Similarities among owners of small private forest properties in nine eastern localities. Jour. Forestry 59(2): 88–92. Feb. 1961.
Similar article "Characteristics and attitudes of

small forest land ownerships in the eastern United States," presented at CFM Supervisors' Conf.,

Galeton, Pa., Oct. 1960.

QUINNEY, D. N.

A study of small private forest landowners in the Upper Peninsula of Michigan. Thesis (Ph. D.), Mich. State Univ. 1961.

QUINNEY, D. N.

Small private forest landowners in Michigan's Upper Peninsula. U.S. Forest Serv. Lake States Forest Expt. Sta., Sta. Paper 95, 20 pp. Feb. 1962.

SANTOPOLO, F. A., and NEWMAN, J. A.
Motivations of small woodland owners. Ext. Serv.
Rev. 33(12): 249, 263. Dec. 1962.\*

SCHALLAU, C. H.

An investigation of private forest landownership in the southernmost thirty-seven counties of the Lower Peninsula of Michigan. Thesis (Ph. D.), Mich. State Univ. 1961.

SCHALLAU, C. H. 290 Small forest landownership in the urban fringe area of Michigan. U.S. Forest Serv. Lake States Forest Expt. Sta., Sta. Paper 103, 17 pp. 1962.

SUTHERLAND, C. F., and TUBBS, C. H. 291
Influence of ownership on forestry in small woodlands. U.S. Forest Serv. Lake States Forest Expt. Sta., Sta. Paper 77, 21 pp. 1960.

WORLEY, D. P. 292
The small woodland owner in eastern Kentucky—his attitudes and environment. U.S. Forest Serv. Central States Forest Expt. Sta. Tech. Paper 175, 5 pp. July 1960.

#### Southern United States

ANDERSON, W. C.

The small forest landowner and his woodland. U.S.
Forest Serv. Southeast, Forest Expt. Sta., Sta. Paper 114, 15 pp. Oct. 1960.

North Carolina and Georgia.

COOPER, W. E. 294 A forestry association's view of the small ownership situation. West. Forestry and Conserv. Assoc. Proc. 52: 81–84. 1961. Virginia Forests, Inc.

COUTU, A. J. 295
Is forestry financially practical for the small timberland owner? Forest Farmer 20(1): 8-10, 32-33, 35. Oct. 1960.

Also in 20(7): 90-93. Mar. 1961, and 21(7):

84-87. Mar. 1962.

COUTU, A. J. 296
Role of the small landowner in the changing pattern of Southern forestry; decline in number of farms and changing land ownership patterns are shaping conditions favorable to timber growing in Southeast. Forest Farmer 20(11): 6-7, 14, 16-17. July 1961.

MARTIN, I. R., and McDERMID, R. W. 297 Some viewpoints and characteristics of owners of small unmanaged woodlands. La. State Univ. La. Agr. Expt. Sta. Res. Release, LSU Forest Notes 42, 2 pp. 1960.

MILLER, R. L. 298
Practices and problems in the management of small, privately owned timberlands in East Texas. Thesis (M.S.), Okla, Agr. and Mech. Col. 1960.

MILLER, R. L., and SOUTHERN, J. H. 299
Management intent of small timberland owners in east Texas. Tex. Agr. Expt. Sta. MP-439. 8 pp. College Station, Tex. 1960.

RAMKE, T. F. 300 TVA management studies; a close look at some of the factors affecting investment possibilities. Forest Farmer  $20\,(1):16,\,30{\text -}32$ . Oct. 1960.

ROMANCIER, R. M., and BRENDER, E. V. 301 Management of small woodland holdings in the Georgia Piedmont. U.S. Forest Serv. Southeast. Forest Expt. Sta., Sta. Paper 151, 12 pp. Oct. 1962.

YOHO, J. G. 302 How much forestry for the small owner? Forest Farmer 22(1):18-19, 34. Oct. 1962.

# Western United States

FRAZIER, G. D. 303 Small non-industrial forest owners in northern Idaho. Idaho Agr. Expt. Sta. Bul. 317, 31 pp. 1960.\*

KENISTON, R. F. 304
Factors affecting decisions of small-forest owners in western Oregon. Thesis (Ph. D.) Yale University. 1962.\*

LABER, A. W. 305
An economic analysis of ranch forests as operating units. Thesis (M.F.). Montana State University. 1960.\*

#### LAND

AMERICAN FOREST PRODUCTS INDUSTRIES, INC.

Forest land use conference. Washington, D.C. Proc. Sept. 21–22, 124 pp. 1961.

BOONE, D., and COMPTON, C. K. 307
Pine trees for cotton; sound land use-profit. Soil
Conserve. 26(11): 252-254. June 1961.
Farm woodlands on former cotton land, Texas.

DANA, S. T., ALLISON, J. H., and CUNNING-HAM, R. N.

Minnesota lands: Ownership, use, and management of forest and related lands. Washington, D.C. American Forestry Assoc., 463 pp. 1960.

HAGENSTEIN, P. R., and DOWDLE, B. 309 A theoretical model for examining forest land use alternatives. Jour. Forestry 60(3):187-191. March 1962.

HOPKINS, F. S. 310
Potential supply of forest products. *In* Dynamics of land use—needed adjustment, pp. 140–157. Ames, Iowa State University of Science and Technology, Center for Agricultural and Economic Adjustment, 1961.

Timber demand and supply as it affects land-use policy.

MacGREGOR, J. J. 311
Forestry's place in optimum land usage. Fifth
World Forestry Congress Proc. 1960: 1078–1080.
1962.

McARDLE, R. E.

Challenges in forest land use. *In* The challenges of forestry, edited by R. E. Pentoney and W. L. Webb, pp. 47–53. Syracuse, N.Y. State University College of Forestry, 232 pp. 1961.

McCONNEN, R. J.

Hagenstein and Dowdle's model for forest land use alternatives. Jour. Forestry 60(11): 828-830. Nov. 1962.

Comments on article by Hagenstein and Dowdle in Journal of Forestry 60(3):187-191. March 1962.

McKUSICK, H. A. 314
The urban strip versus forestry in New England.
Jour. Forestry 59(8): 594-597. Aug. 1961.

#### CAPITAL

#### GENERAL, INVESTMENT

BEAZLEY, R. 315
Forestry investment decision making. An evaluation. Soc. Amer. Foresters Proc. 1960: 95-99. 1961.

CONKLIN, R. P. 316 On forest land investment. West. Forestry and Conserv. Assoc. Proc. 51: 78–81. 1960.

FLORA, D. F. 317
Time discounting by certain forest landowners.
Thesis (Ph. D.). Yale University. 1961.\*

322

GOUNDREY, G. K. 318 Forest management and the theory of capital. Canadian Jour. of Economics and Political Science 26(3): 439-451. Aug. 1960.

GUTTENBERG, S. Guidelines for the forest investor. Forest Farmer 19(8): 6-7. April 1960. Rates of return-interest.

HALL, O. F. Evaluating complex investments in forestry and other long-term enterprises using a digital computer. Lafayette, Indiana Agr. Expt. Sta. Res. Bul. 752, 11 pp. 1962.

MARSHALL, T. Look at forestry from the dollar angle. Forest Farmer 20(10): 10, 21-22. June 1961. Investment returns.

MARTIN, I. R. Trees-a growing investment opportunity. Amer. Forests 66 (12): 10-12, 44-45. Dec. 1960.

MARTY, R. J. Timber investment decisions. A study of economic decision-making under uncertainty in forestry. Thesis (Ph. D.), Yale Univ. 1961.

MEAD, W. J. Long-term investment planning for forestry development. Yale Univ. and Univ. Calif. Indust. Forestry Seminar 14, 21 pp. 1961.

MILNE, D. W. Opportunities for foreign investment in forestry. Fifth World Forestry Cong. Proc. 1960:1105-1109. 1962.

MULLINS, W. H. Forest land as an investment for the absentee owner. Forest Farmer 20(7):93-94. Mar. 1961. Also in 21(7): 87-88. Mar. 1962.

Is forest land a sound investment? What about absentee ownership? Forest Farmer 20(1):11, 35-37. Oct. 1960.

RANKIN, A. G. Management of capital in the forest industry of British Columbia. Forestry Chron. 37(3): 259-269. Sept. 1961.

RUSSELL, E. J. Forestry as an investment. Forests and People 12 (3): 20, 38-40, 42. 1962.

STOLTENBERG, C. H., and MARTY, R. J., and WEBSTER, H. H. 330 Appraising forestry investment opportunities-the role of the investor, the forestry practitioner, and the researcher. Soc. Amer. Foresters Proc. 1960: 82-85. 1961.

WILSON, D. A. Investment opportunities in forest industries in Canada. Soc. Amer. Foresters Proc. 1960: 91-94. 1961.

CREDIT

FERGUSON, E. Timber investments from the standpoint of institutional lenders. Soc. Amer. Foresters Proc. 1960: 88-90. 1961.

HERRICK, A. M. 333 Five aspects of successful forestry. Forest Farmer 21(7): 31–32. Mar. 1962.

334 HERRICK, A. M. Investment aspects of building a forest from bare land. Forest Farmer 20(1): 14-15, 28-30. Oct. 1960.

Also in 20(7): 95-98. Mar. 1961, and 21(7): 89-91. Mar. 1962.

MARLIN, C. B. Long-term credit; an analysis of Mississippi's Forestry Bank Program. Forest Farmer 20(1): 17, 38. Oct. 1960.

MOISE, W. L. Factors which attract equity and borrowed capital to timberlands-investor's viewpoint. Yale School Forestry Indus. Forestry Seminar Bul. 66, pp. 46-58. 1960.

PELLICER, X. L. 337 Financing. Forest Farmer 19(7): 48-49. Mar. Also in 20(7): 100-101. Mar. 1961, and 21(7): 94-95. Mar. 1962.

SIEGEL, W. C. Federal land bank timber loans in the midsouth. U.S. Forest Serv. South. Forest Expt. Sta. Occas. Paper 194, 14 pp. 1962. Development and operation of the Farm Credit System in Louisiana, Alabama, and Mississippi.

U.S. FARM CREDIT ADMINISTRATION Recent developments in timber financing in the cooperative farm credit system. U.S. Farm Credit Admin. Res. and Inform. Div. 13 pp. 1961.

# FOREST MANAGEMENT

(See also AGENTS OF PRODUCTION IN FOREST-RY, Owner, Ownership, Manager, Entrepreneur, and Land.)

PRODUCTION INCLUDING NONTIMBER COM-MODITIES AND SERVICES

# MULTIPLE PURPOSES

AMIDON, E., and GOULD, E. M. The possible impact of recreation development on timber production in three California national forests. U.S. Forest Serv. Pacific Southwest Forest and Range Expt. Sta. Tech. Paper 68, 21 pp. Berkeley, Calif. 1962.

BARTH, N. A study of the conflicts of interest arising from competing resource uses in the Allagash regions of northwestern Maine. Thesis (M.F.), Univ. Mich. 1962.\*

BLACK, P. E. Timber and water resource management: A physical and economic approach to multiple use on Denver's municipal watershed. Thesis (Ph.D.), Colo. State Univ. 1961.\*

BOLLE, A. W.

Multiple use of natural resources in the north fork of the Flathead River Valley, Montana. Thesis (Ph.D.), Harvard Univ. 1960.

Also "The cooperative study of multiple use of natural resources in the north fork of the Flathead Valley, Montana." Mont. State Univ., Mont. Forest and Conserv. Expt. Sta. Bul. 15, 8 pp. Apr. 1960.

Problem analysis.

CARVER, J. A.

Where we stand . . . multiple use of forest land.
Unit, News Letter 92, pp. 8-11. Mar. 1962.

Paper delivered at the Annual Southern Pulpwood
Conservation Association meeting.

Small private holdings.

COLLINS, B. C. 345
Land use conflict in the North Cascades wilderness of
Washington State. Thesis (M.F.), Univ. Mich.
1962.\*

CONNAUGHTON, C. A.

Impact of population on forest management. Soc.

Amer. Foresters Proc. 1959: 2-5. 1960.

GREELEY, A. W. 347 Withdrawing of commercial forest lands from timber production for other uses. Pulp and Paper 35(9): 58-61. May 1, 1961.

JONES, A. R. C.
Guides to the management of the Morgan Arboretum.
Thesis (M.F.), State Univ. N.Y. Col. Forestry, Syracuse. 1962.
MacDonald College, Canada.

KREUSCHMER, D. H. A. 349

The idea of multiple-use of forest lands in world forestry. Thesis (M.F.), State Univ. N.Y. Col. Forestry, Syracuse. 1962.

Includes economic evaluation.

McARDLE, R. E. 350

The concept of multiple use of forest and associated lands—its values and limitations. Fifth World Forestry Cong. Proc. 1960: 143-145. 1962.

Also in Pulp and Paper Mag. Canada 61(9): 183–184, 186. Sept. 1960.

MORRISS, D. J.

Timber production on recreation areas. Jour.
Forestry 59 (12): 878–881. Dec. 1961.

Paper presented at the Wash. Sect., Soc. Amer.
Foresters, Feb. 16, 1961, Washington, D.C.

NEFF, P. E. 352
Multiple use is a reality. Amer. Forests 67(5): 18-19, 53-54. May 1961.
National forests.

NEW ENGLAND BUSINESS REVIEW
Multipurpose management of camp lands.
Reserve Bank of Boston. 1–4 pp. Dec. 1960.
New England.

STAGNER, H.

A second look at multiple use. Amer. Forests 66(2): 24–25. 1960.

Primary-use principle.

STEDMAN, C. K. 355
An algebraic approach to land use in the Pacific Northwest. Amer. Forests 67(1): 38–39. Jan. 1961.

Cost of substituting recreational use for timber growing.

THOMPSON, A. E. 356
Timber and water—twin harvest on Seattle's Cedar
River Watershed. Jour. Forestry 58(4): 299–302.
Apr. 1960.

U.S. CONGRESS, HOUSE COMMITTEE ON AGRICULTURE

National forests—multiple use and sustained yield. Hearings, 86th Cong., 2d sess., on H.R. 10572, Mar. 16 and 18, 1960. 134 pp. Washington. 1960.

U.S. DEPARTMENT OF THE INTERIOR 358
Opportunities for economic development in Michigan's Upper Peninsula. 84 pp. Washington. 1962.
Prepared for the Committee on Public Works, United States Senate, includes forest-products industries and recreation.

U.S. FOREST SERVICE 359
Multiple use highlights; Pacific Northwest Region, 1960. 25 pp. Washington. 1960.

U.S. TENNESSEE VALLEY AUTHORITY, DIVISION OF FORESTRY DEVELOPMENT 360 Multiple-use on Norris watershed. 19 pp. Norris, Tenn., 1962.

U.S. TENNESSEE VALLEY AUTHORITY, DI-VISION OF FORESTRY 361 Natchez Trace State Forest; demonstration of multiple use. 15 pp. Norris, Tenn. 1962.

U.S. TENNESSEE VALLEY AUTHORITY, DI-VISION OF FORESTRY DEVELOPMENT 362 TVA and forestry, twentieth century goals. 42 pp. Norris, Tenn. 1962. Development of forests-fish-wildlife in the Ten-

nessee Valley.

VAISSIERE, J. DE

Politique forestière et utilisation des terres en
Europe (sauf U.R.S.S.)—possibilités d'application
du "Multiple-use" forestier. (Forest policy and
utilization of land in Europe (except the U.S.S.R.)—
possibilities of the application of multiple-use forestry.) Fifth World Forestry Cong. Proc. 1960:
161-166. 1962.
English resume.

WHITE, Z. W. 364
Effects of recreational use are risks of fire, expropriation, and encroachment; costs are small. Pulp and Paper 36(10): 110-112. May 14, 1962.
Privately-owned land.

WORLEY, D. P.

Objectives and methods of economic evaluation on the Beaver Creek watershed project. West. Agr. Econ. Res. Council Conf. Proc. Rpt. 9: 123–129. 1961.

Watershed studies underway on the Coconino National Forest, Ariz., with emphasis on multiple use.

YOUNG, G. L. 366
The South Umpqua Ranger District: a case study in multiple use. Thesis (M.F.), Oreg. State Univ. 1962.\*

ZIVNUSKA, J. A.

The multiple problems of multiple use. Jour. Forestry 59(8): 555-560. Aug. 1961.

Timber, recreation, water.

LIVESTOCK

GATHERUM, G. E. 368
An analytical approach to the management of forest land for beef cattle and timber production. Iowa State Jour. Sci. 34(4): 565–574. May 15, 1960.

HALLS, L. K., and DUVALL, V. L. Profits and cost of forest grazing. Forest Farmer 20(7): 151-152. Mar. 1961. Also in Gulf Coast Cattleman 27(7): 5-6. Sept.

On longleaf pine-bluestem ranges of Louisiana and east Texas.

RECREATION

AGNEW, C. R. 370 Don't sell free enterprise in recreation short. Forest Notes 70: 3-7. Summer 1961. The private entrepreneur of recreational facilities

vs. national parks and free recreational system.

ANDREWS, W. H., and SITTERLEY, J. H. Outdoor recreation on private woodlands and the factors affecting the behavior of woodland owners. Ohio State Univ. Dept. Agr. Econ. and Rural Sociol., Ohio Agr. Expt. Sta., and U.S. Forest Serv. 1962.

BEAZLEY, R. I. Some considerations for optimizing public forest recreational development and value. Jour. Forestry 59(9): 644-650. Sept. 1961.

From a paper presented at the meeting of the Central States Section, Society of American For-

esters, Chicago, Ill., Oct. 1960.

CLIFF. E. P. The role of forest recreation in forest land management. Jour. Forestry 59(7): 491-492. July 1961.

COAN, N. "ROI" (return on investment) cash flow is guide to help answer basic woodland management questions. Pulp and Paper 36(10): 112-115. May 14, 1962.

Recreation management on privately owned wood-

CUSHWA, C. T., and JAMES, G. A. Measurement of forest recreation use. South. Lumberman 205(2561): 150-151. Dec. 15, 1962.

Two sampling methods for estimating recreational use on developed recreational sites and underdeveloped forest areas.

DEAN, N. E. 376 An analysis of state park charges in the United States. Thesis (M.F.), Mont. State Univ. 1960.\*

GOULD, E. M. Forestry and recreation. Harvard Forestry Paper No. 6, 17 pp. 1962.

Also West. Farm Econ. Assoc. Proc. 35: 122-133. 1962.

Current attitudes towards forestry on the part of the urban population of the U.S.A. with particular reference to recreational use.

GOULD, E. M. 378 Planning a recreation complex. Amer. Forests 67(8): 30-35. Aug. 1961. National forests.

HOLLENBAUGH, W. C. 379 Comparing timber production with recreation values on the Stone Valley Recreation Area. Thesis (M.F.), Pa. State Univ. 1961.\*

HUTCHISON, S. B. Recreation opportunities and problems in the National Forests of the northern and intermountain regions. U.S. Forest Serv. Intermountain Forest and Range Expt. Sta. Res. Paper 66, 34 pp. 1962. ORELL, B. L. Implications to industry of ORRRC report: emphasis on role of business and local agencies. Pulp and Paper 36(10): 107-110. May 14, 1962.

OUTDOOR RECREATION RESOURCES RE-VIEW COMMISSION 382 Outdoor recreation for America. 246 pp. U.S. Govt. Printing Off., Washington, D.C. 1962.

OUTDOOR RECREATION RESOURCES RE-VIEW COMMISSION (ORREC) 383 Public outdoor recreation areas—acreage, use, potential. ORRRC Study Rpt. 1. 260 pp. Wilderness and recreation—a report on resources,

values, and problems. ORRRC Study Rpt. 3.

The quality of outdoor recreation: as evidenced by user satisfaction. ORRRC Study Rpt. 5. 95 pp. Potential new sites for outdoor recreation in the Northeast. ORRRC Study Rpt. 8 170 pp.

Alaska outdoor recreation potential. ORRRC

Study Rpt. 9. 50 pp.

Private outdoor recreation facilities. ORRRC Study Rpt. 11. 150 pp.

Financing public recreation facilities. Study Rpt. 12. 100 pp.

Multiple use of land and water areas. ORRRC Study Rpt. 17. 45 pp.

National recreation survey. ORRRC Study Rpt. 19. 300 pp.

Participation in outdoor recreation: factors affecting demand among American adults. ORRRC Study Rpt. 20. 100 pp.

Trends in American living and outdoor recreation. ORRRC Study Rpt. 22. 315 pp.

Projections to the years 1976 and 2000: economic growth, population, labor force and leisure, and transportation. ORRRC Study Rpt. 23. 510 pp.

Economic studies of outdoor recreation. ORRRC

Study Rpt. 24. 150 pp.

Devlpmt. 1960.\*

Prospective demand for outdoor recreation. ORRRC Study Rpt. 26. 150 pp. U.S. Govt. Printing Off., Washington, D.C. 1962.

PECK, A. 384 Recreational potential of coastal Maine. Univ. Maine School Business Admin., State Dept. Econ.

POMEROY, K. B. 385 Recreation trends in the South. Amer. Forests 67(6): 44, 46-48. Jun. 1961. Need for more state parks.

RIPLEY, T. H. 386 Recreation impact on Southern Appalachian campgrounds and picnic sites. U.S. Forest Serv. Southeast. Forest Expt. Sta., Sta. Paper 153, 20 pp.

Sampling of 42 developed camping and picnic sites.

ROCKEFELLER, L. S. 387 The future of outdoor recreation. Jour. Forestry 60(8): 521-524. Aug. 1962. Includes multiple use of private forest holdings.

SIEKER, J. What should the user pay for forest recreation? Soc. Amer. Foresters Proc. 1960: 66-70. 1961.

Recreational and financial guidelines for management; suggested by ORRRC to achieve most effective land use. Pulp and Paper 36(10): 103-107. May 14, 1962.

STEWART, B. E. 390 Recreational use of private forest land in a portion of eastern Maine. Thesis (M.F.), Univ. Maine. 1961.\*

STEWART, B. E., and YOUNG, H. E. Recreational development planning for profit. Maine Farm Res. 9(3): 3-5. Oct. 1961. Estimated costs and fees for camping and outdoor recreational facilities.

TAYLOR, G. D., and EDWARDS, R. Y. A survey of summer visitors to Wells Gray Park, British Columbia. Forestry Chron. 36(4): 346-354. Dec. 1960.

WAGER, J. A. The carrying capacity of wild lands for recreation. Thesis (Ph. D.), Univ. Mich. 1961.\*

#### WATER, SOIL

PLEASONTON, A., and GUTTENBERG S. Stimulating woodland management in north Mississippi: an appraisal. U.S. Forest Serv. South. Forest Expt. Sta. Occas. Paper 185. 18 pp. 1961. Yazoo-Little Tallahatchie Flood Prevention Proj. cooperating.

Rehabilitation project in Yazoo-Little Tallahatchie watershed.

WILLISTON, H. L., and MACNAUGHTON, V. B. Timber management guide for Yazoo-Little Tallahatchie flood prevention project. U.S. Forest Serv. and U.S. Soil Conserv. Serv. 42 pp. 1962. Northern Mississippi.

# WILDLIFE

ADAMS, L. Big game habitat management; a problem in multiple use in northeastern California. U.S. Forest Serv. Pacific Southwest. Forest and Range Expt. Sta. Tech. Paper 42, 50 pp. Oct. 1959.

BENNETT, A. L. 397 Industrial forestry and wildlife-the Northeast. Jour. Forestry 60(1): 18-20. Jan. 1962. Mostly Pennsylvania.

398 BODEN, W. A. Wildlife recreation on industrial forest lands. Thesis (M.F.), Univ. Mich. 1962.\*

GAMBLE, H. B. Equating timber and wildlife values and returns to the farm resource base in Sullivan County, Pennsylvania. Thesis (M.F.), Pa. State Univ. 1962.\*

HEACOX, E. F., and LAWRENCE, W. H. 400 Industrial forestry and wildlife—the Northwest. Jour. Forestry 60(1): 10-13. Jan. 1962. Loss of growing stock; control costs.

HOWARD, W. E. 1961 report of the wildlife society's committee on economic losses caused by vertebrates. Jour. Forestry 60(1): 45-46. Jan. 1962. A condensation of the report.

HURD, E. S. 402 Industrial forestry and wildlife—the Lake States. Jour. Forestry 60(1): 15-17. Jan. 1962.

NELSON, U. C. 403 The forest-wildlife resources of Alaska. Jour. Forestry 58(6): 461-464. June 1960.

# MANAGEMENT CHIEFLY FOR TIMBER

#### GENERAL.

#### General

CRAIG, G. A. How much K-V [Knutson-Vandenberg Act] do we need on timber sales administered by the U.S. Forest Service. Timberman 61(2): 40-41, 79-80. Feb. 1960. Includes regeneration.

CURTIS, F. H. Linear programming the management of a forest property. Jour. Forestry 60(9): 611-616. 1962.

ENTRICAN, A. R. 406 The influence of delivered prices of forest product on silvicultural practice in a developing forest economy. Fifth World Forestry Congress Proc. 1960: 425-433. 1962. New Zealand.

FALK, H. W. 407 The forester's attorney. Yale University, School of Forestry Industrial Forestry Seminar, Longview, Wash., Oct. 12-23, 1959. 11 pp. 1960. Legal advice.

GRAH, R. R. Silviculture must pay its way. Forest Indus. 89 (10): 38-39, 92. Oct. 1962.

GRUENFELD. J. 409 Why the gap between forest management practice and what is economically feasible? Jour. Forestry 60(9):601-603. Sept. 1962.

HAGENSTEIN, W. D. Logic of J. F. K. land plan disputed. Pulp & Paper 36(9): 59-60. April 30, 1962, Forest management on federal lands.

McARDLE, R. E. The nature of the U.S. problem. In Jarrett, H., ed. Comparisons in resource management, pp. 47-51. Johns Hopkins Press, for Resources for the Future, Inc., 271 pp. 1961. Small holdings.

McLAREN, C. G. 412 Considerations in timberland investments in the Southeast. Yale University, School of Forestry, Industrial Forestry Seminar, Bul. 66, pp. 93-110. 1960.

McMAHON, R. O. A deductive study of differences in forest management intensity on nonindustrial forest lands. Thesis (Ph. D.). University of California. 1962.\*

MEYER, H. A., RECKNAGEL, A. B., STEVEN-SON, D. D., and BARTOO, R. A. 414 Forest management. New York. Ronald Press, 2d ed. 320 pp. 1961.

SEGUR. J. A. Financial management in action. Yale University, School of Forestry, Industrial Forestry Seminar, Bul. 66, pp. 111-124, 1960. Industrial ownership and management of forests

to provide investment protection.

- SOMBERG, S. I.

  A program for fostering the economic growth and development of the Republic of Honduras through investments in forestry. Thesis (D. F.). Duke University. 1962.
- STREYFFERT, P. T. 417
  The influence on silviculture of the price of primary forest products. Fifth World Forestry Congress Proc. 1960: 435-441. 1962.
- STREYFFERT, T. 418
  Investments in forestry with reference to reforestation. An H. R. MacMillan lectureship address delivered at the University of British Columbia. University of British Columbia, Vancouver, 12 pp. 1960.
  Sweden and British Columbia.
- STREYFFERT, T. 419
  Management of small forest holdings in Sweden.
  In Jarrett, H., ed. Comparisons in resource management, pp. 52–73. 1961. Johns Hopkins Press, for Resources for the Future, Iuc., 271 pp. 1961.
- STREYFFERT, T. 420 Management of small woodlots in Sweden. Amer. Forests 67(2): 16–19, 52, 54, 57–58. Feb. 1961.
- YOHO, J. G.

  An American view of the Swedish experience. Amer.
  Forests 67 (3): 34–35, 44–49. Mar. 1961.

  Comment on the article "Management of small woodlots in Sweden," by T. Streyffert, Amer. Forests 67 (2): 16–19, 52, 54, 57–58. Feb. 1961.
- YOHO, J. G. 422 What the United States can learn. pp. 74-87. In Jarrett, H., ed. Comparisons in resource management. Resources for the Future, 288 pp. Johns Hopkins Press. 1961. Small holdings.

#### Northern United States

- AMIDON, G. B.

  The development of industrial forestry in the Lake States. Univ. Wash., Colonel William B. Greeley Lecture No. 5, 44 pp. Seattle, Wash. 1960.
- ASHMAN, R. I.

  Forest plantations in Maine. Maine Agr. Expt. Sta.
  B. 601, 56 pp. Apr. 1962.\*
- CRANE, J. R. 425
  Maine looks to the future. Amer. Forests 66(6): 20–
  23, 51. June 1960.
  Woodland management to insure a profitable forest products industry.
- GOULD, E. M. 426 Fifty years of management at the Harvard Forest. Harvard Forest Bul. 29, 29 pp. Petersham, Mass. 1960.
- KELSO, E. G. 427 Timber management in northern New England. Northeast. Logger 9(11): 18-21, 66-67. May 1961.
- LANDON, P. E.
  Forest management's considerations in multiproduct logging. Northeast. Logger 10(1): 12-13, 34-36. July 1961.

- MORROW, R. R.

  Growth and yield of plantation red pine. N.Y.
  Forester 18(4): 8-12. 1961.

  New York State.
- TRIMBLE, G. R.

  Managing mountain hardwoods—a ten-year appraisal. U.S. Forest Serv. Northeast. Forest Expt. Sta., Sta. Paper 143, 25 pp. 1961.
- WEBSTER, H. H. 431
  An economic analysis of certain stumpage production alternatives in Pennsylvania, Thesis (Ph. D.), Univ. Mich. 1960.
- WEBSTER, H. H. 432 How good are timber-management opportunities in Pennsylvania. Pa. Forests 52(2): 20-21. 1962.
- WEBSTER, H. H.

  Timber management opportunities in Pennsylvania.
  U.S. Forest Serv. Northeast. Forest Expt. Sta., Sta.
  Paper 137, 37 pp. 1960.
- WEBSTER, H. H., and STOLTENBERG, C. H. 434 Rating timber-management opportunities in West Virginia. U.S. Forest Serv. Northeast. Forest Expt. Sta. 81 pp. Mar. 1960.

# Southern United States

- ALBERT, F. A.

  Some timber management effects on the papermaker.

  South Pulp and Paper Mfr. 24(7): 104, 108. July 10, 1961.
- BETHUNE, J. E., and LE GRANDE, W. P. 436 On-the-ground example in the coastal plain of South Carolina; profitable small-forest management—a case history. Forest Farmer 20(1): 12–13, 38. Oct. 1960.

Santee Experimental Forest.

BRENDER, E. V., and McCOMB, W. H. 437
Farming the woods. Ga. Forest Res. Paper 12, 4 pp. 1962.

A case study of a 29-acre woodlot in Piedmont

Georgia in which 1 acre is clear-cut and planted each year.

5 ----

428

- GUTTENBERG, S. 438
  The business end of forest farming; as an investment. Forest Farmer 19(7): 47–48. Mar. 1960.
- HUNGERFORD, N. D. 439
  Effects of southern industrial forestry on small woodland management. Thesis (M.F.), Univ. Mich. 1962.\*
- MEYER, W. H. 440 Impressions of industrial forestry in southeastern United States. Jour. Forestry 58(3): 179–187. Mar. 1960.
- MITCHELL, J. 441
  Influence of woodland and owner characteristics on forest management in the Tennessee Valley. The Unit, News Letter 85: 12-14. 1960.
- STEVENSON, D. D., and SCHORES, D. D. 442 A case history of industrial forest management in north central Florida. Jour. Forestry 59(6): 411– 416. June 1961.

U.S. FOREST SERVICE 443 Management and inventory of southern hardwoods. U.S. Dept. Agr. Forest Serv. Agr. Handb. 181, 102 pp. Nov. 1960.

VANDE LINDE, F. Trends in hardwood usage and hardwood management. South. Lumberman 202(2514): 25-26. Jan. 1, 1961.

WHALEY, R. S., and GUTTENBERG, S. Informal partners: woodland owners and forest industry. Forest Farmer 22(1): 22-24. Oct. 1962.

WHEELER, P. R. South destined to become nation's wood basket. Forest Farmer 20(13): 6-7, 18. Sept. 1961.

WHITE, Z. W. Appraisal of forest tree improvement activities from the viewpoint of forest industry. Northeast. Forest Tree Impr. Conf. Proc. 7: 4-8. 1960.

YOHO, J. G., and FISH, R. B. 448 A survey for the South; what it costs to practice forestry. Forest Farmer 21(2): 6-8, 19. Nov. 1961.

#### Western United States

449 CRAIG, G. A. Public timber and public interest—undercut and underserved: the impact of public timber sale programs of the Western forest industries. Soc. Amer. Foresters Proc. 1959: 83-88. 1960.

FEDKIW, J., KING, J. E., and TURNBULL, K. Study plan on: Economy of advance roading and scheduled cutting in second-growth Douglas-fir. Weyerhaeuser Co., Timberland Div. Bul., 24 pp. Mar. 1961.

FRITZ, E. The development of industrial forestry in California. Univ. Wash., Colonel William B. Greeley Lecture No. 4, 40 pp. Seattle, Wash. 1960.

HUTCHISON, S. B., and ROE, A. L. 452 Management for commercial timber. Clark Fork Unit, Montana. U.S. Forest Serv. Intermountain Forest and Range Expt. Sta. Res. Paper 65, 29 pp. 1962.

MOSHER, M. M. The economic value of eighteen northeastern Washington farm forests. Wash. State Agr. Expt. Sta. Bul. 632, 28 pp. 1962.

PICKFORD, G. D., and LE BARRON, R. K. A study of forest plantations for timber production on the Island of Hawaii. U.S. Forest Serv. Pacific Southwest Forest and Range Expt. Sta. Tech. Paper 52, 17 pp. 1960.

U.S. DEPARTMENT OF THE INTERIOR, BU-REAU OF INDIAN AFFAIRS 455 Economic aspects of timber management on the Colville Indian Reservation, Washington. 59 Washington, D.C. 1962.

WORTHINGTON, N. P., RUTH, R. H., and MATSON, E. E. 456 Red alder-its management and utilization. U.S. Dept. Agr. Misc. Pub. 881, 44 pp. 1962.

#### Canada

GIBSON, J. M. 457 Spruce-balsam management in New Brunswick. pp. 77-82. University of British Columbia (Papers commemorating 150 years of university forestry education in Hungary.) 1961.

#### RECORDS, ACCOUNTS, PLANNING

ANDERSON, M. L. 458 Some points affecting the financing of afforestation schemes. Fifth World Forestry Cong. Proc. 1960: 1174-1177. 1960.

BRUCE, R. W. Costing for the small logger. Forest Indus. 89(9): 37, 46. Sept. 1962. Cost control as a tool for decision making.

BRUCE, R. W., and ADAMS, T. C. 460 Logging cost analysis in management planning. Forest Prod. Jour. 12(11): 519-522. Dec. 1962.

COUTU, A. J., and ELLERTSEN, B. W. 461 Application of linear programming procedures to farm forestry problems. Forest Mangt. Control Conf. Proc. 1960: 177-190. 1960.

Evaluation of woodland management opportunities in conjunction with agricultural enterprise

alternatives.

COUTU, A. J., and ELLERTSEN, B. W. Farm forestry planning through linear programming. Tenn. Valley Auth. Div. Forestry Relat. Rpt. 236-60, 31 pp. Norris, Tenn. Dec. 1960.

COWAN, D. R. 463 Some topics in linear programming. Thesis (M.F.), Univ. Mich. 1960.\*

DOWDLE, B. 464 Investment theory and forest management planning. Thesis (Ph. D.), Yale Univ. 1962. Also Yale Univ. School Forestry Bul. 67, 63 pp.

A modification of traditional forestry investment theory in which both financial returns and risk are considered.

FEDKIW, J. Capital budgeting for acquisition and development of timberlands. Yale Univ. School Forestry Indus. Forestry Seminar Bul. 66, pp. 1-45. 1960.

Practical applications of capital budgeting concepts to industrial forest management. U.S. Forest Serv. Pacific Northwest Forest and Range Expt. Sta., Div. Forest Econ. Res., 60 pp. Oct. 1961. Presented at the Yale Univ. School Forestry 17th

Indus. Forestry Seminar, Univ. Wash.

FILIP. S. M., and LEAD, W. B. 467 Profitable woodlot management in New England. U.S. Forest Serv. Northeast. Forest Expt. Stat., Sta. Paper 170, 17 pp. 1962. Old-growth hardwoods in New Hampshire.

MITCHELL, W. C., and WEBSTER, H. H. 468 Ten-year earnings from two small woodlands. U.S. Forest Serv. Northeast. Forest Expt. Sta., Sta. Paper 145, 31 pp. 1961.

A case study of two 30-acre plots of hardwoods at

Fernow Experimental Forest, W. Va.

PANEL
Costs and benefits of intensified forestry. West.
Forestry and Conserv. Assoc. Proc. 52: 57-67. 1961.
Chairman: W. F. McCulloch; members: R. G.
McKee, B. L. Rasmussen, J. H. Hauberg, Jr.

PANEL
Costs and benefits of intensified forestry. West.
Forestry and Conserv. Assoc. Proc. 52: 69-84. 1961.
Chairman: J. A. Zivnuska; members: C. A. Newport, J. W. Meyers, Jr., A. D. Folweiler, W. E. Cooper.

REYNOLDS, R. R., and RAWLS, I. W. 471
After 25 years on the Crossett farm forestry forties.
U.S. Forest Serv. South. Forest Expt. Sta. 4 pp. 1962.

A well-stocked forty has yielded stumpage returns of \$10,800.

STOLTENBERG, C. H., and THOMSON, G. W. 472 Observations on the usefulness of linear programming in farm forestry. Jour. Forestry 60(10): 724, 728. Oct. 1962.

Refers to TVA Rpt. 236-60 by A. Coutu and B. Ellertsen, "Farm Forestry Planning Through Linear Programming."

VAN VOORHIS, R. H. 473
Records and accounting. Forest Farmer 19(7): 49–50. Mar. 1960.

Also in 20(7): 109-110. Mar. 1961, and 21(7): 103-104. Mar. 1962.

#### SOIL, SITE

LUNDGREN, A. L. 474
Investment opportunities in regenerating black spruce are greatly affected by site. U.S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 611, 2 pp. Oct. 1961.

SILKER, T. H. 475
Ecological and economic considerations in the development of soil-site management for southern pine-hardwood lands. South. Weed Conf. Proc. 14: 191–197. 1961.\*

WALKER, L. C., and MOSS, W. T.

Will fertilizing forests be good business? Plant Food
Rev. 7(4): 9-11. 1961.

Georgia coastal plain.

#### TREE REGENERATION

## General

PLOCHMANN, R. 477
The struggle for mixed forests. Amer. Forests 66
(8): 12-15, 55-56, 58, 60. Aug. 1960.
An evaluation of economic, pathological, and pedological effects of artificial regeneration of pure

# Northern United States

forest stands.

BENSON, R., and SKOK, R. A.

The Soil Bank Act and its forestry impact in Minnesota. Jour. Forestry 58 (12): 937-942. Dec. 1960.

Also published as Scientific Jour. Series Paper 4471,
Minn. Agr. Expt. Sta., St. Paul.

CARVELL, K. L., and GOODSPEED, A. W. 479
From brush to plantation—an economic and silvicultural study. W. Va. Expt. Sta. Bul. 469, 16 pp. 1962.

5-year results of a brush-clearing study, using 8 different methods on old field, confirmed that none was economic unless a valuable short-rotation crop like Christmas trees was grown with or instead of sawtimber and pulpwood.

POND, J. D. 480 A forester looks at the Soil Bank. Northeast. Logger 9(1): 23, 30–31. July 1960.

TRIMBLE, G. R., and HART, G. 481
An appraisal of early reproduction after cutting in northern Appalachian hardwood stands. U.S. Forest Serv. Northeast. Forest Expt. Sta. Paper 162, 22 pp. 1961.

#### Southern United States

MANN, W. F., and DERR, H. J.

Guidelines for direct-seeding loblolly pine. U.S.
Forest Serv. South. Forest Expt. Sta. Occas. Paper 188, 23 pp. 1961.

Site evaluation and preparation, seed procurement and treatment, methods and rate of sowing, seeding

inventories, costs.

SILKER, T. H. 483 Economic considerations of growing and grading southern pine nursery stock. Tree Planters' Notes 42:13-18. June 1960.

#### Western United States

ADAMS, R. S. 484 Reforestation studies, 1960. Calif. Dept. Nat. Resources, Div. Forestry. 27 pp. 1961.

BENTLEY, J. R., WHITE, V. E., and GREEN,
L. R.

Helicopter sowing of burned watersheds on the San
Dimas Experimental Forest, 1960. U.S. Forest Serv.
Pacific Southwest Forest and Range Expt. Sta. Misc.
Paper 62, 7 pp. 1961.
Includes costs per acre.

GRAH, R. F.

Effects of initial stocking on financial return from young-growth Douglas-fir. Hilgardia 29(14): 613–679. Berkeley, Calif. 1960.

KER, J. W., and SMITH, J. H. G. 487 The economics of reforestation. West. Forestry and Conserv. Assoc. Proc. 51: 72–78. 1960.

# Canada

HORTON, K. W., and McCORMACK, R. J. 488
Economical spot seeding and planting methods for pines on sand plains. Canada Dept. Forestry, Forests Res. Branch Tech. Note 36, 22 pp. Ottawa. 1960.

See also Tech Note 100, 19 pp. 1961.

KER, J. W., SMITH, J. H. G., and LITTLE, D. B.

Reforestation needs in the Vancouver forest district. Vancouver Foundation, Univ. British Columbia, Faculty Forestry Res. Paper 36, 19 pp. 1960. Includes costs.

SMITH, J. H. G., KER, J. W., and CSIZ
MAZIA, J.

Economics of reforestation of Douglas fir, western
hemlock and western red cedar in the Vancouver
forest district. Univ. British Columbia, Forestry
Bul. 3, 144 pp. Aug. 1961.

ZAVITZ, E. J. 491
Fifty years of reforestation in Ontario. Ontario
Dept. Lands and Forests. 1960(?).

INTERMEDIATE CUTTING, STAND IMPROVEMENT

#### General

FEDKIW, J., and YOHO, J. G. 492 Economic models for thinning and reproducing evenaged stands. Jour. Forestry 58(1): 26-34. Jan. 1960.

FEDKIW, J., and YOHO, J. G. 493 Further comment on "Economic models for thinning and reproducing even-aged stands". Jour. Forestry 59(4): 298-299. Apr. 1961.

PAUL, B. H. 494 Early pruning improves lumber grades. South. Lumberman 202(2516): 29-30, 32. Feb. 1, 1961.

VON DEICHMANN, V. 495 Comments on "Economic models for thinning and reproducing even-aged stands". Jour. Forestry 58 (12): 970-974. Dec. 1960.

Refers to article by J. Fedkiw and J. G. Yoho in Jour. Forestry 58(1): 26-34.

#### Northern United States

FEDKIW, J., HOPKINS, F. S., and STOUT, N. J.

Economic aspects of growing high quality pine through pruning. Northeast. Logger 8(10): 16-19, 22-23, 39. Apr. 1960.

GEYER, W. A. 497 Cost estimation for timber stand improvement with chemicals in central hardwoods. Thesis (M.F.), Purdue Univ. 1962.\*

OWSTON, P. W. 498
The effect of thinning on an eastern white pine plantation in southeastern Michigan. Thesis (M.F.), Univ. Mich. 1962.\*

RYKER, R. A., and MINCKLER, L. S. 499 Methods and costs of killing hardwood culls. U.S. Forest Serv. Central States Forest Expt. Sta. Tech. Paper 191, 9 pp. 1962.

#### Southern United States

GRANO, C. X. 500
Does pruning pay off? Forest Farmer 20(12): 10-11.
Aug. 1961.
Southern Arkansas.

JONES, E. P.
 Wide spacing of slash pine produces early gum and sawtimber yields. U.S. Forest Serv. Southeast.
 Forest Expt. Sta. Res. Note 169, 2 pp. Nov. 1961.

PEEVY, F. A. 502 Controlling southern weed trees with herbicides. Jour. Forestry 58(9): 708-710. Sept. 1960. Includes costs of various herbicidal treatments at Alexandria Research Center, La.

REYNOLDS, R. R., and STERNITZKE, H. S. 503 Timber stand improvement opportunities in southwest Arkansas. South. Lumberman 203(2530): 28, 30-31. Sept. 11, 1961.

#### Western United States

DIMOCK, E. J., and HASKELL, H. H. 504
Veneer grade yield from pruned Douglas-fir. U.S.
Forest Serv. Pacific Northwest. Forest and Range
Expt. Sta. Res. Paper 48, 15 pp. 1962.

HARRIS, E. C., and DINGLE, R. W. 505 Thinning in the Douglas-fir region. Wash. Agr. Expt. Sta. Cir. 385, 30 pp. May 1961.

WIKSTROM, J. H., and WELLNER, C. A. 506
The opportunity to thin and prune in the Northern
Rocky Mountain and Intermountain regions. U.S.
Forest Serv. Intermountain Forest and Range Expt.
Sta. Res. Paper 61, 14 pp. 1961.

WORTHINGTON, N. P. 507 Cost of thinning 50-year-old Douglas-fir for pulpwood at Voight Creek Experimental Forest. U.S. Forest Serv. Pacific Northwest. Forest and Range Expt. Sta. Res. Note 215, 4 pp. Nov. 1961.

WORTHINGTON, N. P. 508 Some observations on yield and early thinning in a douglas-fir plantation. Jour. Forestry 59(5): 331-334. May 1961.

WORTHINGTON, N. P., REUKEMA, D. L., and STAEBLER, G. R. 509 Some effects of thinning on increment in Douglas-fir in western Washington. Jour. Forestry 60(2): 115–119. Feb. 1962.

WORTHINGTON, N. P., and STAEBLER, G. R. 510 Commercial thinning of Douglas-fir in the Pacific Northwest. U.S. Dept. Agr. Tech. Bul. 1230, 124 pp. 1961.

WORTHINGTON, N. P., and STAEBLER, G. R. 511 Theory and practice of commercial thinning in Douglas-fir. Jour. Forestry 59(8): 591-593. Aug. 1961.

HARVEST CUTTING, REGULATION, ROTATION, STOCKING

(For material on harvesting treated from the engineering viewpoint, see FOREST INDUSTRY, Timber-Harvesting Industry.)

#### General

BENTLEY, W. R. 512
An analysis of financial maturity as a tool in timber management. Thesis (M.F.). University of Michigan. 1960.\*

FERRIER, J. A. 513
The return on investment from even-aged and uneven-aged management, and clear cutting. Thesis (M.F.). Pennsylvania State University. 1961.\*

GAFFNEY, M. M.

Concepts of financial maturity of timber and other assets. North Carolina State College, Dept. Agr. Econ., A.E. Information Series 62, 105 pp. 1960.

An evaluation of economic formulas, using marginal analysis.

KREUTZINGER, M. 515
Planning and control of the managed forest including new inventory control procedure. Fifth World Forestry Congress Proc. 1960: 414–418. 1962.

STAEBLER, G. R. 516 Optimum levels of growing stock for managed stands. Soc. Amer. Foresters. Proc. 1959: 110–113. 1960.

#### Northern United States

MINCKLER, L. S., PLASS, W. T., and RYKER, R. A. 517 Woodland management by single-tree selection: a case history. Jour. Forestry 59(4): 257-261. April 1961.

Kaskaskia Experimental Forest, Ill.

SIEGWORTH, H. D. 518
Financial maturity for some Indiana hardwoods.
Thesis (M.F.). Purdue University. 1960.\*

#### Southern United States

ANDERSON, G. A. 519
Cellulose forestry—key to the future. La. State
Univ. Forestry Symposium Proc. 10:90–96. 1961.
Efforts to produce maximum per-acre yields of
southern pine with short-rotation management.

BRUCE, R. I. 520 Sawlog forestry—dead or alive. Louisiana State University Annual Forestry Symposium, 10: 79-89. 1961.

Southern pine management alternatives—rotation depending on lumber industry status and markets.

CHAPPELLE, D. E. 521
Value growth of pine pulpwood on the George Walton
Experimental Forest. U.S. Forest Serv. Southeast.
Forest Expt. Sta., Sta. Paper 140, 14 pp. Mar. 1962.

LATHROP, H. E. 522
Custom marketing of forest products. Ann. Forestry
Symposium Proc. 11: 82-92. La. State Univ. Press.
1969

Stumpage grading and selection to meet special wood markets—Lightsey Brothers, Miley, S.C.

SELLERS, J. D. 523 Harvesting and marketing. Forest Farmer 19(7): 116-118. Mar. 1960. Also in 20(7): 118-120. Mar. 1961, and 21(7): 113-114. Mar. 1962.

#### Western United States

HAMILL, L. 524
Increasing the allowable cut from Federal Forests in Western Oregon. Oreg. Business Rev. 19(5):1-9.
May 1960.
Rotation age.

JEFFERS, D. N. 525 Rotation—sense and nonsense. West. Forestry and Conserv. Assoc. Proc. 51: 69–72. 1960.

McMAHON, R. O. 526
The economic significance of mortality in old-growth Douglas-fir management. U.S. Forest Serv. Pacific Northwest Forest and Range Expt. Sta. Res. Paper 37, 21 pp. 1961.

NEWPORT, C.A. 527 Dead timber salvageable. Pulp and Paper 35(16): 50,52. Aug. 7, 1961.

Douglas-fir in western Oregon and Washington. 775-671-65-4

TINNEY, W. A., QUAM, A. N., and O'DON-

NELL, A. R. 528
Twenty years of commercial crop tending in immature Douglas-fir. Jour. Forestry 59 (10); 731–733.
Oct. 1961.

#### Canada

DOBSON, P. O. 529
Timber for the future. West. Forestry and Conserv. Assoc. Proc. 52: 52–55. 1961.
Sustained-yield management in British Columbia.

TESSIER, J. P., and SMITH, J. H. G. 530 Effect of tree size of red alder on harvesting and conversion to lumber. British Columbia Univ. Faculty Forestry Res. Paper 45, 8 pp. Nov. 1961.

#### ROADS, OTHER TRANSPORTATION

FEDKIW, J. 531
Advance roading for increased utilization in the Douglas-Fir Region—Oregon and Washington.
West. Forestry and Conserv. Assoc. Proc. 51: 64–69. 1960.

# PROTECTION

#### PROTECTION FROM FIRES

ADAMS, H. E., and ACHOCH, M. S. 532 1960 forest fires and fire danger in Connecticut, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Virginia, and West Virginia. U.S. Forest Serv. Southeast. Forest Expt. Sta. 1961 and 1962.

Twelve separate reports; cost and loss data.

COWAN, C. S. 533
The enemy is fire! 135 pp. Superior Pub. Co., Seattle, Wash. 1961.
History of fire control, Washington State.

HEFNER, J. E., and STOREY, T. G. 534
An analysis of 1959 forest fires and fire danger in
Georgia. Ga. Forest Res. Council Forest Res. Paper
2, 38 pp. 1961.

HEFNER, J. E., and STOREY, T. G. 535 An analysis of 1960 forest fires and fire danger in Georgia. Ga. Forest Res. Council Forest Res. Paper 7, 40 pp. Dec. 1961.

HENDEE, C. W. 536
Forest fire prevention—progress and prediction.
Jour. Forestry 60(6): 380-384. June 1962.

MACTAVISH, J. S. 537
Forest fire damage appraisal in Canada. Pulp and Paper Mag. Canada, Woodlands Rev., pp. WR-450 to WR-451. Nov. 1962.

A plea for standard methods of reporting so that statistics will be more useful in management

decisions.

MACTAVISH, J. S., and LOCKMAN, M. R. 538 Forest fire losses—Canada 1961. Canada Dept. Forestry, Res. Branch. 1962(?). Statistics by region covering cause, area burned,

volume, and value destroyed.

SMITH, J. H. G. 539 Costs and values of adequate forest-fire control. Forestry Chron. 37(1): 5, 9. Mar. 1961. U.S. FOREST SERVICE, DIVISION OF CO-OPERATIVE FOREST FIRE CONTROL 540 Forest fire statistics, 1961. 14 pp. rev. 1962.

# PRESCRIBED BURNING

DAVIS, L. S. 541
An economic evaluation of prescribed burning for fire hazard reduction in forest stands. Thesis (M.F.), Univ. Mich. 1960.\*

LOTTI, T., KLAWITTER, R. A., and LE GRANDE, W. P. 542 Prescribed burning for understory control in loblolly pine stands of the coastal plain. U.S. Forest Serv. Southeast. Forest Expt. Sta., Sta. Paper 116, 19 pp. 1960.

Includes burning costs and reduction of logging costs.

#### PROTECTION FROM INSECTS

BECKER, W. B., and ABBOTT, H. G. 543
Prevention of insect damage to decked pine sawlogs in Massachusetts with BHC emulsion sprays.
Jour. Forestry 59(5): 366-369. May 1961.
Analyzes costs and savings of spraying white pine

BURNS, P. Y. 544
Use of aircraft for foliar applications of herbicides in Southern forests. Ann. Forestry Symposium 9: 84–100. La. State Univ. Press. 1960.
Includes costs of application and returns from

spraying.

EATON, C. B. 545 Entomological considerations in the economics of forest pest control. Jour. Forestry 60(5): 309-311 May 1962.

MARTY, R. J. 546
White pine opportunities project plan for an economic analysis of several pest-control and management alternatives in the east. U.S. Forest Serv. Northeast. Forest Expt. Stat. Div. Forest Econ. Res. 44 pp. Mar. 1960.

MARTY, R. J., and ALLISON, G. R. 547 Appraising white-pine weevil control opportunities. Jour. Forestry 58(3): 203–206. Mar. 1960. New York.

WORRELL, A. C. 548
Pests, pesticides, and people. Amer. Forests 66(7): 39-81. July 1960.

Also Amer. Forestry Assoc. reprint. 1960.

Policy and economic implications.

#### PROTECTION FROM OTHER AGENCIES

KING, D. B., STOLTENBERG, C. H., and MARTY, R. J. 549
The economics of white pine blister rust control in the Lake States. U.S. Forest Serv. 40 pp., appendices. Washington, D.C. June 1960.

NEWPORT, C. A. 550
Economics of forest pest control. Jour. Forestry 60(5): 306-308. May 1962.
Dwarfmistletoe.

#### FOREST INDUSTRY

(For material on the forest economy in general, including forest land resources, see FORESTRY ECONOMICS AT LARGE, Forest Resources and Industries of an Area.)

#### GENERAL

# STATUS AND TRENDS

#### United States

General

FRENCH, G. E. 551 Let's face our problems. Forest Prod. Jour. 10(9): 476-480. Sept. 1960.

Lumber and plywood situation and outlook—raw material, labor, production.

JOHNSON, E. S., and SHOOK, E. A. 552 Economics of machine replacement. Forest Prod. Jour. 11 (10): 467-470. Oct. 1961.

MEYER, W. H. 553
Earning capacities and growth rates of selected wood-using industries for the period 1945 through 1958. Yale Univ. School Forestry, Indust. Forestry Seminar Bul. 66, pp. 59–69. 1960.

MORGAN, H. W. 554 Challenges in the use of wood. pp. 153–161. In The challenges of forestry, edited by R. E. Pentoney and W. L. Webb. N.Y. State Univ. Coll. Forestry, Syracuse. 232 pp. 1961.

STODDARD, C. H. 555 Public timber and small business. Soc. Amer. Foresters Proc. 1959: 88–90. 1960. U.S. FOREST SERVICE 556
Forest industry opportunities in rural development.
U.S. Dept. Agr. Inform. Bul. 222, 27 pp. Mar. 1960.

ZIVNUSKA, J. A. 557
Economic factors in the organization of the forest products industries. Oreg. State Coll., Yale Indus. Forestry Seminar 1960: 83–113. Corvalles, Oreg. 1961.

ZIVNUSKA, J. A. 558
Economic organization in the forest products industries. Yale Univ. School Forestry 12th Indus. Forestry Seminar 1959: 1–25. 1960.

Northern United States

DUERR, W. A. 559
The future for wood-using industry in New York State. Jour. Forestry 59(11); 821-824. Nov. 1961.

HAGENSTEIN, P. R. 560
The location decision for primary wood-using industries in the Northern Appalachians. Thesis (Ph. D.), Univ. Mich. 1962.

NORTHEASTERN LOGGER

Conference on forest industry opportunities in rural development, Harrisburg, Pa., November 1960.

Northeast. Logger 9(9): 10-19, 22-25, 34, 40-43, 46-65, 67, 69. Mar. 1961.

REID, W. H., and others. 562
Primary wood industries of West Virginia. W. Va.
Univ. Agr. Expt. Sta. Bul. 461, 35 pp. 1961.
W. W. Christensen, A. W. Goodspeed, and N. D.

Jackson, joint authors.

WEBSTER, H. H., and HAGENSTEIN, P. R. 563 Timber industry opportunities in the Beckley-Hinton area of southern West Virginia. U.S. Forest Serv. Northeast. Forest Expt. Sta. Misc. Pub., 29 pp. 1962.

WORLEY, D. P. 564
Local benefits from timber industry expansion. U.S. Forest Serv. Central States Forest Expt. Sta. Tech. Paper 172, 17 pp. 1960.
Eastern Kentucky.

#### Southern United States

MOSEBROOK, H. S. 565 ORRRC (Outdoor Recreation Resources Review Commission)—how it will affect our southern industry. Unit, News Letter 94: 33-35. Sept. 1962.

PIKL, I. J. 566 Southern forest products and forestry: developments and prospects. Jour. Farm Econ. 42(2): 268-281. May 1960.

Economic development of the Southern lumber and

pulp and paper industries.

RAUNIKAR, R., and BOOTH, E. J. R. 567
The processing industry for forest products in eastern
Oklahoma. Okla. State Univ., Okla. Agr. Expt. Sta.
Bul. B-550, 48 pp. Feb. 1960.
Impact on the rural economy.

YOHO, J. G., and MUENCH, J. 568
Regional economic factors bearing on the future of
the lumber and woodpulp industries in the South.
Jour. Forestry 60(5): 312-319. May 1962.
Emphasizes trend to woodpulp.

#### Western United States

GIBSON, W. K. 569
Economic analysis of the Montana forest products industry. Thesis (M.F.), Mont. State Univ. 1962.\*

GUTHRIE, J. A., and ARMSTRONG, G. R. 570 Western forest industry and economic outlook. Resources for the Future Inc., 352 pp. Johns Hopkins Press, Baltimore. 1961.

LANDT, E. F. 571
Forest industries of the Black Hills area, South Dakota and Wyoming. U.S. Forest Serv. Rocky Mountain Forest and Range Expt. Sta. Paper 60, 14 pp. 1961.

TATTERSALL, J. N. 572
Performance of the Oregon economy 1950–1960.
West. Econ. Assoc. Proc. 35: 76–81. 1960.
Includes lumber and wood-products industry.

WILSON, A. K. 573
Production of lumber and other forest products in Nevada, 1960. U.S. Forest Serv. Intermountain Forest and Range Expt. Sta. Forest Survey Release 5, 3 pp. 1962.

YOUNG, C. E. 574 Outlook for the forest products industry. Wash. Univ. Business Rev. 21(2): 51-67. Dec. 1961.

#### Canada

CANADIAN BUREAU OF STATISTICS, INDUSTRY AND MERCHANDISING DIVISION 575
General review of the wood-using industries, 1957.
(Vol. 2-Part X-B-1) 17 pp. Queen's Printer, Ottawa, Ont. 1960.

CANADIAN BUREAU OF STATISTICS, IN-DUSTRY AND MERCHANDISING DIVISION 576 General review of the wood-using industries, 1958. 21 pp. Queen's Printer, Ottawa, Ont. 1961.

CANADIAN BUREAU OF STATISTICS, INDUSTRY AND MERCHANDISING DIVISION
The miscellaneous wood-using industries, 1958.
16 pp. Queen's Printer, Ottawa, Ont. 1960.

CANADIAN BUREAU OF STATISTICS, IN-DUSTRY AND MERCHANDISING DIVISION 578 The miscellaneous wood-using industries, 1959. 18 pp. Queen's Printer, Ottawa, Ont. 1961.

#### Other Areas

PERRY, R. 579
Bird's eye view of United Kingdom timber industry.
Timber Trade Jour. 236 (4405): 65-68. 1961.

Consumption—imports and home production—consuming industries, employment trends, exports, future prospects.

#### DIRECTORIES

580

"ABC" British Columbia lumber trade directory and year book, 1960. Ed. 22, 335 pp. Canada Prog. Pub. Co., Vancouver. 1960.

BOIS, P. J., and WHITE, J. F. 581 Wood-using industries in Georgia—a utilization report and directory. Ga. Forestry Comn. and U.S. Forest Serv. Southeast. Forest Expt. Sta. 142 pp.

A county-by-county wood-industry directory combined with a detailed wood-industry production report.

BRUNDAGE, R. C. 582 Indiana's wood using industries. Northeast. Logger 9(7): 22–23, 42–43. Jan. 1961.

BRUNDAGE, R. C. 583

The primary wood-using industries of Indiana.
Purdue Univ. Coop. Ext. Serv. Cir. 511. 22 pp.
Lafayette, Ind. 1962.

DIRECTORY of western pulp and paper mills. 584 West. Conserv. Jour. 18(6): 62-64. Nov./Dec. 1961.

DIRECTORY of the wood products industry. 585 Ann. ed. 43. 622 pp. Miller Freeman Press, Portland, Oreg. 1962.

FOREST FARMER 586
Buying guide for forest farmers. Forest Farmer 19
(7): 169-170, 172-174, 176. Mar. 1960.
Directory of timber markets, Southern States.

FOREST FARMER
The forest agencies. Forest Farmer 19(7): 32-45.
Mar. 1960.

Southern pulp and paper mills; Southern lumber companies; State and Federal forestry, roster of State and National Forests in 15 Southern States; forestry education.

FOREST FARMER 588
Forestry and trade associations. Forest Farmer 19
(7):164. Mar. 1960.

FOREST FARMER

Markets for your timber. Forest Farmer 21(7):
140-144. Mar. 1962.
Southern States.

FOREST FARMER
Markets for your timber: location of woodyards,
many buying direct from landowners, the company
or dealer to contact, products purchased and species
accepted. Forest Farmer 20(7): 143-146. Mar.
1961.

BOIS, P. J., and WHITE, J. F. 591 The Southern pulp and paper mills. Forest Farmer 21(7):155-158. Mar. 1962.

BOIS, P. J., and WHITE, J. F. 592 Southern woodyards; location of woodyards buying direct from landowners, the company or dealer to contact, products purchased and species accepted. Forest Farmer 19(7): 136–138. Mar. 1960.

FOREST INDUSTRY 593 1962 directory of board producers. Forest Indus. 89 (7): 120-130. July 1962. Hardboard, particle board, insulation board.

LOCKWOOD'S directory of the paper and allied trades, 1962. Ed. 87. 1570 pp. New York. 1961. 594

LUMBERMAN. 595 1960 directory of board producers: hardboard, flakeboard, particleboard, insulating board. Lumberman [San Francisco] 87(7): 95–100, 102, 104, 106, 108–113. July 1960.

McCORMICK, L. E., and SMITH, R. C. 596
Directory of sawmills and other wood-using plants in
Missouri. Mo. Agr. Col. Ext. Cir. 733, 56 pp. Feb.
1961.

NEW HAMPSHIRE FORESTRY AND RECREATION COMMISSION 597
New Hampshire 1961 wood processing mills directory. 11 pp. Concord, N.H. 1961

NEW HAMPSHIRE FORESTRY AND RECREATION COMMISSION 598
1960 wood processing mills directory. 12 pp. Concord, N.H. 1960.
Mostly sawmills.

NORTH CAROLINA DEPARTMENT OF CON-SERVATION AND DEVELOPMENT, DIVI-SION OF FORESTRY 599 Buyers of forest products in North Carolina. 101 pp. Raleigh, N.C. Rev. 1960.

NORTHEASTERN LOGGER
Sawmills of northern New York. Northeast. Logger 8(11): 22–23, 56. May 1960.

NORTHWESTERN LUMBERMEN'S ASSOCIATION 601 The northwestern annual 1960–1961. Minneapolis, 232 pp. 1960. PENNSYLVANIA DEPARTMENT OF FOR-ESTS AND WATERS 602 Pennsylvania sawmills by counties. Penn. Dept. of Forests and Waters 43 pp. 1960.

PLYWOOD and board products directory, 1962 603 Portland, Oreg., 64 pp. 1962.

POST'S paper mill directory 604 New York. 1960 ed., 558 pp. 1960; also 1962 ed., 574 pp. 1962.

PULP and paper manual of Canada, twentyeighth edition, 1960 605 Gardenvale, Quebec, Natl. Business P. Ltd., 460 pp. 1960.

PULP and paper manual of Canada, twentyninth edition, 1961 606 Gardenvale, Quebec, Natl. Business P. Ltd., 461 pp. 1961.

PULPWOOD PRODUCTS & SAWMILL LOG-GING 607 Chip production up 32 percent. Pulpwood Prod. and Sawmill Logging 8(3): 6, 8–12. March 1960. Includes directory of southern pulpwood chip suppliers.

PULPWOOD PRODUCTS & SAWMILL LOG-GING 608 Wood and woodlands directory 1962. Pulpwood Prod. & Sawmill Logging 10(1): 17, 20-21, 24, 26-27, 30. Jan. 1962.

SCHMIDT, O. A. 609 Our sawmills in the Northeast. Northeast. Logger 9(4): 28, 55. Oct. 1960. Also II, Circular mills. 9(5): 2, 31. Nov. 1960.

SOUTHERN HARDWOOD PRODUCERS 610 Southern hardwood buyers' guide 1962. Memphis, Tenn., 25 pp. 1962.

SOUTHERN PULP & PAPER MFR. 611 Mill and personnel directory. South. Pulp and Paper Mfr. 25(10): 75-277. Oct. 1962.

TIMBER CANADA
Veneer, plywood, and board manufacturers. Timber Canada 21 (11): 28, 30. Nov. 1960.

U.S. FOREST SERVICE, DIVISION OF FOR-EST ECONOMICS RESEARCH

Woodpulp mills in the United States by state and type of product. Washington, 23 pp. 1961.

WEST COAST LUMBERMEN'S ASSOCIATION 614
Where to buy west coast lumber. Portland, Oreg.,
51 pp. 1960.

WESTERN CONSERVATION JOURNAL
Directory of western pulp and paper mills. Western
Conserv. Jour. 17(6): 48-51. Nov./Dec. 1960.

WISCONSIN RETAIL LUMBERMEN'S ASSO-CIATION 616 Directory of Wisconsin and Upper Michigan retail lumber dealers corrected to March, 1960. Milwaukee, 37 pp. 1960.

WISCONSIN RETAIL LUMBERMEN'S ASSO-CIATION

Directory of Wisconsin and Upper Michigan retail lumber dealers, corrected to March 1961. Milwaukee, 40 pp. 1961.

#### TIMBER-HARVESTING INDUSTRY

(For material on harvesting treated from the silvicultural viewpoint, see FOREST MANAGEMENT; Management Chiefly for Timber; Harvest cutting, regulation, rotation, stocking.)

#### GENERAL

#### General

- BOWLES, W. D. 618 Economics of forest utilization in the Soviet Union. Fifth World Forestry Congress Proc. 1960; 1119–1121. 1962.
- BRAUE, R. W. 619
  The concept and economics of dry land log handling and storage. Thesis (M.F.). University of Washington. 1961.\*
- DONNELLY, R. H. 620 A technique for relating logging costs to logging chances. Northeast. Logger 11(3): 12–13, 30–35, 42. Sept. 1962.
- FRITZ, W. G. 621
  The future of industrial raw materials in North
  America. 76 pp., Washington. 1960.
  Chapter on forest products, pp. 43–49.
- GOLDEN, E. A. 622 Linear programming in harvesting forest products, 11th Annual Forestry Symposium Proc., pp. 53-59. Baton Rouge: La. State Univ. Press. 1962.
- GROTE, F. R. 623 Multi-logging—a developing concept of forest harvest. 11th Annual Forestry Symposium Proc., pp. 60–72. Baton Rouge: La. State Univ. Press. 1962.
- McNALLY, J. A. 624
  Costing mechanical equipment. Pulp and Paper Mag.
  Canada 62(11): 137–138, 140, 142–144. 1961.
  Suggested standard method of figuring costs of

Suggested standard method of figuring costs of owning and operating equipment on logging operations.

- MILES, J. 625
  Salvage logging pays dividends. Forest Prod. Jour. 10(4):190–192. Apr. 1960.
- PANEL

  Lease or buy—a panel discussion. Pulp and Paper
  Mag. Canada 62 (8): 146, 148, 150, 152. Aug. 1961.

  Moderator: C. R. Silversides; members: F. B.
  Tilton, J. H. Clark.
  Logging equipment.
- QUAILE, G. E. 627 Practical logging analysis; accounting for machine costs. Northeast. Logger 9(3): 26. Sept. 1960.
- QUAILE, G. E. 628
  Practical logging analysis; cost distribution. Northeast. Logger 9(5): 32. Nov. 1960.
- QUAILE, G. E. 629
  Practical logging analysis; the machine rate in logging. Northeast Logger 9(1): 28. July 1960.
- RUTTAN, R. 630
  Buying vs. renting. When to lease. British Columbia Lumberman 56 (12): 19-24. 1961.
  Logging equipment.

- SIMMONS, F. C. 631
  The interrelation and compatability (sic) of silviculture and logging. Ontario (Canada) Dept. Lands and Forests Res. Rpt. 48 (Ontario Res. Found. Report 601): 17–20. 1962.
- SIMPSON, R. M. 632 A new approach to the problem of cost-price relationships in the forest products industry. Wash. Univ. Business Rev. 22(1): 16-23. Oct. 1962.
- SMITH, G. W., and HARRELL, C. 633 Linear programming in log production. Forest Prod. Jour. 11(1): 8-11. Jan. 1961.

#### Southern United States

- ESTES, J. E. 634
  Cost analysis of a palletized pulpwood logging operation in Marion County, Florida. Thesis (M.F.), Univ. Fla. 1962.\*
- JILES, R. A., and LEHMAN, J. W.
  Reducing logging costs. South. Lumberman 202 (2516): 35–36, 40, 42. Feb. 1, 1961.
  Tennessee Valley.
- KING, W. W., and others

  Hardwood logging methods and costs in the Tennessee Valley. U.S. Tenn. Valley Auth. Div. Forest Relat. Rpt. 232–60, 39 pp., Norris, Tenn. 1960.
- MILLER, C. E. 637

  The use of timber harvesting cost data to calculate allowances for timber cutters. Buckeye Cellulose Corp. 14 pp., Foley, Fla. 1961.
- U.S. TENNESSEE VALLEY AUTHORITY, DI-VISION OF FOREST RELATIONS 638 Hardwood logging methods and costs in the Tennessee Valley. 35 pp. Norris, Tenn. 1960.
- WELLS, C. M., and WELCH, L. D. 639
  Developing Mississippi's hardwood resources. Miss.
  Agr. Expt. Sta. 30 pp. July 1962.
  Prepared under a Small Business Admin. grant awarded to Miss. Indus. and Tech. Res. Comn.
- WINER, H. I.

  Notes on the analysis of pulpwood logging in the Southeast. Amer. Pulpwood Assoc. 54 pp. New York. 1961.
- WINER, H. I.

  Problems in analyzing southern logging costs. 11th
  Annual Forestry Symposium Proc., pp. 41–52. Baton
  Rouge. La. State Univ. Press. 1962.

# Western United States

- BYERS, A. M. 642
  The timber industry and industrial forestry in Alaska. Jour. Forestry 58(6): 474-477. June 1960.
- KLINE, R. F. 643 Economic logging sale layout. Pacific Logging Cong. Handb. 21 (sect. 1): 29–31. 1961.
- TAYLOR, T. L.

  Hidden costs in logging. Pacific Logging Cong.

  Loggers Handb. 22 (sect. 2): 29–31. 1962.
- TAYLOR, T. L. 645 Wood costs. Pacific Logging Cong. Loggers Handb. 21 (sect. 3): 3-4. 1961.

#### Canada

BARFORD, B. A larger share of a smaller cake? Canada Lumberman 81(1): 25-30. Jan. 1961.

A review of Canadian forest products market for 1960, and preview for 1961.

GILLAM, D. S. The White-Sugarloaf development and experimental 8-foot, 16-foot and tree-length logging. Pulp and Paper Mag. Canada, Woodlands Rev., pp. WR-12 to WR-22. Jan. 1962.

LUSSIER, L. J. Planning and control of logging operations. 135 pp. Laval Univ., Quebec.

MORRISON, W. Commuter-camp operations result in lower wood costs. Pulp and Paper Mag. Canada, Woodlands Rev. WR-332, 334. Aug. 1962. Includes effect on local economy.

SILVERSIDES, C. R., and SHISKO, S. Equipment leasing by the logging industry in eastern Canada. Pulp and Paper Mag. Canada 62(5): 163-166. 1961.

High annual use justifies maintenance-free machinery without large capital expenditure.

TESSIER, J. P., and KNAPP, F. M. Cost analysis of a mobile logging operation on the UBC Research Forest. British Columbia Univ. Faculty Forestry Res. Paper 41, 16 pp. June 1961.

PRODUCTION

(This section includes production of logs and bolts in general or for more than one use; for single uses, see the industry in question "Raw material." For longterm production goals, see FOREST-PRODUCT DE-MAND, PRICE, MARKETING, TRADE; Consumption or production goals, prospective requirements.)

## Southern United States

ALABAMA DEPARTMENT OF CONSERVA-TION, DIVISION OF FORESTRY Production of forest products by counties in Alabama—calendar year 1961 as determined from forest products severance tax receipts. Ala. Forest Prod. 5(10): 109. Oct. 1962.

STERNITZKE, H. S., and CHRISTOPHER. J. F. 653 Recent trends in southern pine production. Pulpwood Prod. 9(11): 1, 4. Nov. 1961.

#### Western United States

BEUTER, J. H. 1961 Oregon log production. U.S. Forest Serv. Pacific Northwest. Forest and Range Expt. Sta. Forest Survey Rpt. 146 (rev.), 2 pp. 1962.

CALIFORNIA DEPARTMENT OF NATURAL RESOURCES, DIVISION OF FORESTRY 655 Production of California timber operators in 1958. 11 pp. Sacramento. 1960.

CALIFORNIA DEPARTMENT OF NATURAL RESOURCES, DIVISION OF FORESTRY 656 Production of California timber operators in 1960. State Forest Note 10, 7 pp. Feb. 1962.

DEPARTMENT OF NATURAL RESOURCES 657 Timber harvest report. Ann. Rept. Olympia, Wash. DOTTA, D. 658 Production of California timber operators in 1959. Calif. Dept. Nat. Resources, Div. Forestry State Forest Note 8, 7 pp. Apr. 1961.

GEDNEY, D. R. 659 1960 Oregon log production. U.S. Forest Serv. Pacific Northwest. Forest and Range Expt. Sta. Forest Survey Rpt. 138, 2 pp. 1962.

GEDNEY, D. R. 660 1960 Washington log production. U.S. Forest Serv. Pacific Northwest. Forest and Range Expt. Sta. Forest Survey Rpt. 140, 2 pp. 1962.

MILLER, R. L., and WILSON, A.K. Sawlog production in Colorado and Wyoming, 1957. U.S. Forest Serv. Rocky Mountain Forest and Range Expt. Sta. Forest Survey Release 3, 6 pp. 1960.

FOREST SERVICE, PACIFIC NORTH-WEST FOREST AND RANGE EXPERIMENT STATION 662 1960 Washington log production. Pacific Northwest. Forest and Range Expt. Sta. Forest Survey Rpt. 140. 2 pp. Mar. 1961.

Canada

CANADA BUREAU OF STATISTICS, INDUS-TRY AND MERCHANDISING DIVISION Operations in the woods. Final estimates of forest production, 1959. 11 pp. Queen's Printer, Ottawa, Ont. 1961.

UTILIZATION OF THE STAND OR TREE

(For utilization of specific products, see industry in question and also Bark, chips, other residues.)

#### General.

664 GAREY, C. How industry is utilizing the forest-past, present, and future. Tappi 43(9): 213A-216A. Sept. 1960.

KING, W. W. Effect of better log making on tree value. U.S. Tenn. Valley Auth., Div. Forestry Relat. Tech. Note 33, 7 pp. Norris, Tenn. 1960.

Northern United States

BORK, J. Allocating costs in multi-product logging. Northeast. Logger 10(1): 14-15, 40. July 1961.

HALL, S. Integrated logging; silviculturally desirable—financially dangerous. Northeast. Logger 9(1): 29. July 1960.

WINER, H. I. Multi-product logging; opportunities and problems. Northeast. Logger 10(1): 10-11, 39. July 1961.

#### TRANSPORTATION

(For marketing transportation, see FOREST-PROD-UCT DEMAND, PRICE, MARKETING, TRADE; Transportation.)

BORK, J. H. Transportation planning on the large operation. Northeast. Logger 9(2): 20-21, 44-45, 48. Aug. 1960. New Hampshire logging.

BYRNE, J. J., NELSON, R. J., and GOOGINS,

P. H. 670 Logging road handbook: the effect of road design on hauling costs. U.S. Dept. Agr., Agr. Handb. 183, 65 pp. Dec. 1960.

FORTIN, L. W. 671
Planning small operations. Northeast. Logger 9(2): 23, 50. Aug. 1960.
Logging transportation.

GIGNAC, T. 672
Some aspects of forest truck road location and construction. Pulp and Paper Mag. Canada, Woodlands Rev., pp. WR-53 to WR-64. 1962.

MacQUEEN, I. C. 673
Pacific Northern Railway strikes deep into virgin forests; new railroad to the Yukon and Alaska will help B.C. tap vital timber reserves necessary to maintain increased cut expected to total 7½ billion fbm by 1975. Canada Lumberman 80(11): 52-53. Nov. 1960.

TRIMBLE, G. R., and BARR, C. R. 674
Cost of skid roads for arch logging in West Virginia.
South. Lumberman 201 (2507): 33-34. Sept. 15, 1960.

WOOD, A. D. 675
The potential use of helicopters for log transport.
Pulp and Paper Mag. Canada, Woodlands Rev., pp.
WR-473 to WR-480. Dec. 1962.

WRIGHT, B. S. 676
Effect of stream driving on fish, wildlife and recreation. Pulp and Paper Mag. Canada, Woodlands Rev., pp. WR-433 to WR-439. Nov. 1962.
Pulpwood.

# WOOD-USING INDUSTRY

LUMBER, ALLIED PRODUCTS

Industry Status and Trends

General

BRUCE, R. W. 677
Factors affecting sawmill output. Forest Prod. Jour. 11(10): 471–476. Oct. 1961.

With reference to log size.

CRAIG, G. A.

Profits and risks in the lumber industry. Jour.

Forestry 59(8): 580-589. Aug. 1961.

CRAIG, G. A. 679 Yes—lumber needs more profits! Jour. Forestry 60 (7): 489-490. July 1962.

Refers to R. C. Hall's "Does the lumber industry need more profits?" Jour. Forestry 60(2): 140-141. Feb. 1962.

DINH, T. T.

A historical sketch of the lumber industry in the United States. Thesis (M.S.), State Univ. N.Y. Coll. Forestry, Syracuse. 1962.

1608–1960.

HALL, G. R. 681

The lumber industry and forest policy: a study in the economics of natural resources. Thesis (Ph.D.), Harvard Univ. 1960.\*

HALL, R. C. 682

Does the lumber industry need more profits? Jour.

Forestry 60(2):140-141. Feb. 1962.

JACKSON, N. D., and SMITH, G. W. 683 Linear programming in lumber production. Forest Prod. Jour. 11(6): 272-274. June 1961.

A technique for determining the optimum combination of lumber sizes to cut from each log. Objective: efficient utilization and maximum profit.

SOUTHERN LUMBERMAN
Lumber industry outlook for 1960 and review of 1959.
South. Lumberman 200 (2491): 30. Jan. 15, 1960.

U.S. DEPARTMENT OF COMMERCE, BU-REAU OF THE CENSUS 685 1958 Census of Manufactures, part 3—lumber and wood products; furniture and fixtures. 90 pp. 1961.

Northern United States

MANCINI, A. J. 686
Recent changes in the lumber industry of New York
State. Thesis (M.F.), State Univ. N.Y. Coll. Forestry, Syracuse. 1961.

WORLEY, D. P. 687 Recent developments stimulate hardwood lumber business in eastern Kentucky. U.S. Forest Serv. Central States Forest Expt. Sta. Tech. Paper 176, 5 pp. Sept. 1960.

Southern United States

CHRISTOPHER, J. F. 688
Alabama wood-using plants, U.S. Forest Serv.
South. Forest Expt. Sta. Forestry Note 142. 1962.

CHRISTOPHER, J. F. 689
Tennessee wood-using plants. U.S. Forest Serv.
South. Forest Expt. Sta. Forestry Note 138. 1962.

LEHMAN, J. W. 690 The changing sawmill industry; a status report on 58 circular sawmills in the Tennessee Valley, 1950– 1960. U.S. Tenn. Valley Authority, Div. Forestry Relat., 23 pp. 1961.

MOAK, J. E., and KERR, L. J. 691 Economic opportunities in Mississippi's pine lumber industry. Miss. Agr. Expt. Sta. in cooperation with Miss. Indus. and Tech. Res. Comn. and Small Business Admin., 46 pp. Washington, D.C. Aug. 1961.

PIKL, I. J. 692 Economic status of, and prospects for, the Georgia pine lumber industry. Univ. Ga., Inst. Community and Area Devlpmt., 60 pp. Athens, Ga. 1962.

Western United States

ARMSTRONG, G. R. 693
The evolution of the softwood lumber industry in the west. (A review and economic analysis.) (Mimeo.) 59 pp. Baldwinsville, N.Y. Sept. 1962.

Also Exhibit #26 in the Proc. U.S. Tariff Comn.
Hearings on Softwood Lumber, Invest. #7-116.
Oct. 5, 1962.

BLACK, J. A. 694
Procurement, processing and marketing practices of sawmills in Puget Sound region. Thesis (M.F.), Wash. State Univ. 1962.\*

BRUCE, R. W., and BRICKELL, J. E. 695 Sawmill practices and economic stability in northeast Washington. Wash. Agr. Expt. Sta. Bul. 631, 24 pp. Dec. 1961. WHALEY, R. S. 696 Structure of the sawmill industry in Colorado. Thesis (M.F.), Colo. State Univ. 1961.\*

Canada

CANADIAN BUREAU OF STATISTICS, INDUSTRY AND MERCHANDISING DIV. 697
The hardwood flooring industry, 1958. 15 pp.
Queen's Printer, Ottawa, Ont. 1960.

CANADIAN BUREAU OF STATISTICS, IN-DUSTRY AND MERCHANDISING DIVISION 698 The lumber industry 1958. 46 pp. Queen's Printer, Ottawa, Ont. Oct. 1960.

CANADIAN BUREAU OF STATISTICS, IN-DUSTRY AND MERCHANDISING DIVISION 699 The sash, door and planing mills industry, 1959. 28 pp. Queen's Printer, Ottawa, Ont. 1961.

CANADIAN BUREAU OF STATISTICS, IN-DUSTRY AND MERCHANDISING DIVISION 700 Sawmills; formerly the lumber industry; 1960 Annual Census of Manufactures, 32 pp. Queen's Printer, Ottawa, Ont. 1962.

ROOK, S. F. 701

The future of softwood lumber in Eastern Canada.

Forest Prod. Jour. 10(7): 358–360. July 1960.

Supply and demand, costs and capital investments, and marketing.

# Production, Consumption, Stocks

HORN, A. G.
Minnesota produces 161 million board feet of lumber—1960. U.S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 623, 2 pp. 1962.

MAY, R. H. 703 Lumber production in California and Nevada, 1952– 1957. U.S. Forest Serv. Pacific Southwest Forest and Range Expt. Sta. Forest Survey Release 37, 12 pp. May 1960.

LUMBERMAN 704
1959 lumber production of major Western sawmills.
Lumberman [San Francisco] 87(4); 68–73. April
1960.

Includes British Columbia.

LUMBERMAN 705
1959 Lumber production of Southern-Eastern mills;
major lumber producers in the Southern, Lake
States, major Alaskan and Eastern Canadian sawmills, Lumberman [San Francisco] 87(5): 81–86.
May 1960.

MEAD, W. J. 706 Changing pattern of cycles in lumber production. Jour. Forestry 59(11): 808-813. Nov. 1961. 1919-1961.

NATIONAL LUMBER MANUFACTURERS AS-SOCIATION 707 Statistical summary of lumber and hardwood flooring, 1957-60. Washington, 14 pp. 1961.

NATIONAL LUMBER MANUFACTURERS AS-SOCIATION 708 Statistical summary of lumber and hardwood flooring 1959–62; production shipments orders and stocks. Washington, 19 pp. 1962. WESTERN PINE ASSOCIATION 709 Statistical summary for the year 1960. Portland, Oreg., 7 pp. 1961.

#### Firms and Their Processes

CLAPHAM, J. C., and LAMBE, T. A. 710
The economics of automatic lumber sorting.
Prod. Jour. 11(7): 320–323. July 1961.

An evaluation of partially and fully mechanized sorters, a comparison of capital expenditures and manpower savings, and an indication of production output and number of sorts required to justify installation costs.

DOWDLE, B., and BAIN, R. 711
Lumber or chips? a comparison of small-log utilization alternatives. U.S. Forest Serv. Northeast. Forest Expt. Sta. Paper 150, 10 pp. 1961.

GRAY, J. R. 712 Economics of sawmill operations in New Mexico. N. Mex. Agr. Expt. Sta. Bul. 465, 25 pp. June 1962.

HOOKER, L. W. 713
The sawmill in an integrated operation. Forest Prod. Jour. 10(3): 168–169. March 1960.

KEPPLER, W. E., and HUXSTER, W. 714 Costs—a key to sawmill profits. Forest Prod. Jour. 11(9): 435–439. Sept. 1961.

KEPPLER, W. E., HUXSTER, W. T., SMITH, G. W., and DYSON, P. J.

Three case studies of lumber manufacturing firms in North Carolina. North Carolina State College of Agr. and Engin., Univ. of North Carolina, and U.S. Dept. of Agr., v.p. 1960.

A circular sawmill in the coastal plain area of the State, a circle-shashgang sawmill in the North Carolina Piedmont, and a band sawmill located in the State's upper coastal plain.

LANE, D. E. 716
The place of the sawmill, integration in the Pacific Northwest. Forest Prod. Jour. 10(3): 162–164.
March 1960.

RODENBACH, R. C., and DOYLE, H. J. 717
Thickness variation of lumber cut in 1959 by circular mills in North Carolina. U.S. Forest Serv. Southeast. Forest Expt. Sta. in cooperation with Furniture Plywood and Veneer Council North Carolina Furniture Assoc., 9 pp. July 1960.

Wood waste.

SIMMONS, F. C. 718
Advantages of log barking to the sawmill operator.
Timber Prod. 18(2): 2. Feb. 1962.

SIMMONS, F. C. 719
Upgrading the product of hardwood operations. Part I and II. South. Lumberman 200 (2498): 33–34, 36, 40. May 1, 1960, and 200 (2499): 31–34, 36, 48. May 15, 1960.

TIPPLE, N. E. 720 Contributions of log sorting and production programming to lumber marketing. Thesis (M.F.). University of Idaho. 1960.\*

# Raw Material

FEDKIW, J., and STOUT, N. J. 721 Timber quality determines white pine lumber grade recovery. Northeast. Logger 8(9): 14-15, 18-19. Mar. 1960. FEDKIW, J., STOUT, N. J., and HOPKINS, F. S. 722 The role of quality in the eastern white pine industry. State Univ. Col. Forestry Syracuse. Monograph, 20 pp. 1960.

MISIAK, R. D. 723
An evaluation of quality of lumber cut from a typical farm woodlot in southeastern Michigan. Thesis (M.F.), Univ. Mich. 1962.\*

NEWPORT, C. A., and AMIDON, E. L. 724
Lumber grade and value performance of younggrowth ponderosa pine logs at the Challenge Experimental Forest. U.S. Forest Serv. Pacific Southwest
Forest and Range Expt. Sta. Tech. Paper 55, 14 pp.
March 1961.
California.

PULP, PAPER, BOARD

Industry Status and Trends

General

industry.

ADAMS, W. R. 725
Paper—the nation's dynamic industry. South. Pulp and Paper Mfr. 23(7): 112–114. July 11, 1960.

ARMSTRONG, G. R. 726
How big is pulp and paper? Pulp and Paper 34(10): 99-101. Sept. 1960.
Procedures for estimating size and growth of

BALDWIN, P. C. 727 Where is the pulp and paper industry going? Canad. Pulp and Paper Assoc. Tech. Sect. Proc. 48: 42–46. 1962.

Also in Pulp and Paper Mag. Canada 62(7):79-83. July 1961.

BENDETSEN, K. R. 728
Economics of the paper industry today; what we can do about our economic weaknesses. Paper Trade Jour. 146(16): 44-47. Apr. 16, 1962.

BETTENDORF, H. J. 729
Paperboard trend analysis. Paperboard Packaging 46(8): 114-117, 119, 121, 123-125. Aug. 1961.

CANADIAN PULP & PAPER INDUSTRY 730
Regional reports. Canad. Pulp and Paper Indus.
13(4): 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38,
40, 42, 46, 48, 50. Apr. 1960.\*
Pulp and paper industry.

DUNN, T. T. 731
What type of woodlands organizations will be required to meet future industry demands? Pulp and Paper 35(9): 50-52. May 1, 1961.

KIMBERLY, J. R. 732
The long range trends of the pulp and paper industry.
Pulp and Paper 35(9): 47-51. May 1, 1961.
Economic growth.

NEUBRECH, W. L. 733
Economic review for paper. Future paper and board production and water and pulpwood requirements. South. Pulp and Paper Mfr. 23 (11): 84, 86. Nov. 10, 1960.

NEUBRECH, W. L. 734 Economic review for paper and pulp. South. Pulp and Paper Mfr. 23(5): 74, 76. May 10, 1960. NEUBRECH, W. L. 735 Economic review of pulp, paper and board. Pulp and Paper Manual Canada 29: 17, 19. 1961.

NEUBRECH, W. L. 736 Economic review of pulp, paper and paperboard. Paper Trade Jour. 145(4): 26-27. Jan. 23, 1961.

PETERSON, F. T. 737
Pulping around the world. Paper Indus. 43(3): 168–169, 172. June 1961.

PULP & PAPER 738 1960 world review. Pulp & Paper 34(8): 1-288. July 10, 1960. Includes directory.

PULP & PAPER 739
1961 world review number. Pulp & Paper 35(15):
1-290. July 24, 1961.
Includes directory.

PULP & PAPER MAGAZINE CANADA 740 World newsprint supply demand outlook to 1961. Pulp & Paper Mag. Canada 61(7): 84-85. July 1960.

SLATIN, B. 741

The paper industry of tomorrow. Pulp & Paper Mag. Canada 62(12): 83–85. Dec. 1961.

Also in South. Pulp & Paper Mfr. 24(7): 94–96. July 10, 1961.

STEVENSON, L. T. 742 A Wall Street view of the paper industry. Tappi 44(1): 20A, 22A, 24A. Jan. 1961.

UNITED STATES PULP PRODUCERS ASSO-CIATION 743 Wood pulp statistics. Ed. 25, 263 pp. New York. 1960.

UNITED STATES PULP PRODUCERS ASSO-CIATION 744 Wood pulp statistics. Ed. 26, 255 pp. New York. 1961.

WEINBERG, E. 745
Impact of technological change and automation in the pulp and paper industry. U.S. Dept. Labor, Bur. Labor Statis. Bul. 1347, 87 pp. Oct. 1962.

WILSON, A. W. 746 In store for pulp-paper in '62. Pulp & Paper 36(1): 37–39, 76–77. Jan. 8, 1962.

Northern United States

RECKNAGEL, A. B. 747
The pulp and paper industry in northern and central New York. Northeast. Logger 8(11): 16-17, 62.
May 1960.

RICH, S. U. 748

Product policies of nonintegrated New England paper companies. Harvard Univ. Grad. School Business Admin. Res. Rpt. to Fed. Reserve Bank of Boston No. 13, 152 pp. 1961.

STOUT, N. J. 749
The two principal resources of the pulp and paper industry—wood and water—and their relationship to the future growth of the industry in New York State. Tappi 44(5): 183A-185A. May 1961.

YOUTSLER, J. S. 750 Automation in the paper industry and its effect on the workers. Skidmore Col., Danforth Found, 15 pp. Saratoga Springs, N.Y. 1962.

Also in Paper Trade Jour. Aug. 6, 1962.

Three representative paper companies in upstate New York from 1946–1961, showing effects of automation on employment, productivity, retraining of workers, profits, and labor costs.

### Southern United States

BRANAN, N. C. 751 What lies ahead for the southern pulp and paper industry? Fed. Reserve Bank (Atlanta) Monthly Rev. Nov. 1960: 1-3. 1960.

EMERSON, W. A. 752
Where we stand . . . The pulp and paper industry in a growing south. Unit News Letter 92, pp. 13-15.
Mar. 1962.

Paper delivered at the Annual Southern Pulpwood Conservation Association meeting.

General statistics.

MILLER, C. R. 753
Reactions and attitudes of private forest landowners in North Carolina toward the pulp and paper industry. Thesis (M.F.), Duke Univ. 1961.\*

RITCHIE, J. L. 754
The pulp and paper industry—its resources and regional growth and production patterns. South. Pulp & Paper Mfr. 24(10): 54, 56–58, 60, 62, 66, 68. Oct. 1, 1961.

See also 24 (10): 40, 42-44, 46, 48-50. Oct 1, 1962. Comparison of the South with other regions of the United States in forest-land area, pulpwood, wood pulp, and paper production for various years from 1926.

SLATIN, B. 755
Economic growth of the southern pulp, paper, and paperboard industries. Pulp & Paper Mag. Canada 61(5): 94–98. May 1960.

SLATIN, B. 756

Paper in the South; a growth industry. South. Pulp & Paper Mfr. 25 (10): 53–56, 58, 60. Oct. 1, 1962.

SLATIN, B. 757

Paper in the South—a two billion dollar industry.

South. Pulp & Paper Mfr. 24(10): 42, 44, 48, 52. Oct.

1, 1961.

SLATIN, B. 758
The paper industry in the South, trends in production and capacity. South. Pulp & Paper Mfr. 23(10): 44, 46, 50, 52. Oct. 1, 1960.

WRIGHT, B. V. 759
Something to be proud of—Southern pulp and paper mills. South. Pulp & Paper Mfr. 23(1): 62, 64, 66-68, 105-106. Jan. 11, 1960.
Situation and outlook.

# Western United States

HUGHES, J. 760
Pulp- and papermaking opportunities in west central Colorado. U.S. Forest Serv. Rocky Mountain Forest and Range Expt. Sta. Paper 73, 48 pp. Nov. 1962.

# Canada

CANADIAN BUREAU OF STATISTICS, IN-DUSTRY AND MERCHANDISING DIVISION. 761 The pulp and paper industry, 1958, 59 pp. Queen's Printer, Ottawa, Ont. July 1960.

CANADIAN PULP AND PAPER INDUSTRY. 762 Annual review and outlook for 1960. Canad. Pulp. and Paper Indus. 13(4): 8–11, 50. Apr. 1960.\*

CANADIAN PULP AND PAPER INDUSTRY. 763 Annual review and outlook for 1961. Canad. Pulp and Paper Indus. 14(4): 16–18, 21–22. Apr. 1961.\*

DE WOLF, J. 764

Annual review and outlook for 1962. Canad. Pulp and Paper Indus. 15(4): 18, 20, 22–23, 26, 36. Apr. 1962.\*

FOWLER, R. M. 765
Canadian industry progresses, faces up to economic problems. Paper Trade Jour. 144(6): 34–36. Feb. 8, 1960.
Pulp and paper.

FOWLER, R. M. 766
Pulp and paper in 1961. Pulp and Paper Mag. Canada 63(2): 37–38. Feb. 1962.

FOWLER, R. M. 767 Year ended review for 1959. Pulp and Paper Mag. Canada 61(1): 89-90. Jan. 1960.

#### Other Nations

LAGERLOEF, E. G. 768
Review of developments in Russia's pulp and paper industry. South. Pulp and Paper Mfr. 23(3): 54-56.
Mar. 10, 1960.

LAGERLOEF, E. G. 769
Will the Russians overtake U.S. pulp and paper industry? Paper Trade Jour. 144(10): 38-39. Mar. 7, 1960.

VOORN, H. 770
The Swedish paper and pulp industry in the nine-teenth century. Paper Maker 29(2): 31-41. 1960.

# Firms and Their Processes

FORGIE, D. J., and TARDIF, G. 771
Development and application of a mathematical model for economic analysis in the pulp and paper industry. Canad. Pulp and Paper Indus. 15(12): 337-338. Nov. 1962.\*

GUTTENBURG, S. 772 Computer programs of interest for the pulp industry. U.S. Forest Serv. South. Forest Expt. Sta., 5 pp. 1962.

Reprint of talk presented at American Pulpwood Assoc. Southwest. Tech. Comm. meeting, Shreveport, La.

HOLT, S. G. 773
A method of economic analysis of the papermaking process. Tappi 44(5): 325-332. May 1961.

VAN DUYNE, R. W. 774 Linear programming and the paper industry. Tappi 44(5): 189A-193A. May 1961.

### Raw Material

# General

JONES, T. A. 775
Linear programming applied to a wood supply problem. Purdue Univ. Forest Mangt. Control Conf.
Proc. 1960: 191–198. 1960.
Pulpwood.

McSWINEY, J. W. 776
What are the long-range relationships of pulpwood costs to the rate of return on products produced? Pulp & Paper 35(9): 56-57. May 1, 1961.

PHELPS, R. B. 777
The application of a linear programming technique to the procurement of pulpwood. Thesis (M.F.), N.C. State Col. 1961.\*

RICHIE, J. L. 778

Basic raw material outlook total fibre supply for paper and paperboard. Paperboard Packaging 45 (8):137-138, 140, 145-146. Aug. 1960.

# Production, Consumption

#### General

PANSHIN, A. J. 779
Production, methods, and markets—Russia. Pulp & Paper 35(9): 80-84. May 1, 1961.
Pulpwood.

WESTERN CONSERVATION JOURNAL. 780
Pulpwood consumption reaches peak. West. Conserv.
Jour. 19(6): 22, 32. Nov./Dec. 1962.
Charts U.S. domestic and import consumption

from 1900. Also includes hardwood, softwood and chipped residue production from 1952 with prices in selected states.

# Northern United States

GANSNER, D. A. 781
Pulpwood production and consumption in the Central States 1961. U.S. Forest Serv. Central States
Forest Expt. Sta. Tech. Paper 192, 8 pp. 1962.

HORN, A.G. 782

Lake states pulpwood production exceeds three million cords, 1959. U.S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 588, 2 pp. July 1960.

HORN, A. G. 783
Lake States pulpwood production up 11 percent in 1960. U.S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 606, 2 pp. 1961.

HORN, A. G. 784
Production and imports of pulpwood decline in the
Lake States, 1961. U.S. Forest Serv. Lake States
Forest Expt. Sta. Tech. Note 624, 2 pp. 1962.

HORN, A. G. 785
Pulpwood production in Lake States counties, 1959.
U.S. Forest Serv. Lake States Forest Expt. Sta. Paper 85, 13 pp. Sept. 1960.

HORN, A. G.
Pulpwood production in Lake States counties, 1960.
U.S. Forest Serv. Lake States Forest Expt. Sta. Paper 94, 28 pp. 1962.

HORN, A. G.
Pulpwood production in Lake States counties, 1961.
U.S. Forest Serv. Lake States Expt. Sta. Paper 106, 18 pp. 1962.

LEWIS, G. D., and JAMES, L. M. 788
Costs and returns for pulpwood production in Michigan. Mich. State Univ. Agr. Expt. Sta. Quart. Bul. 44(2):210-225. Nov. 1961.

MENDEL, J. J. 789
Pulpwood production and consumption in the Central States, 1959. U.S. Forest Serv. Central States
Forest Expt. Sta. Tech. Paper 174, 5 pp. July 1960.

MENDEL, J. J. 790
Pulpwood production and consumption in the Central States, 1960. U.S. Forest Serv. Central States Forest Expt. Sta. Tech. Paper 182, 5 pp. 1961.

MENDEL, J. J. 791
Trends in pulpwood production and consumption in the Central States. U.S. Forest Serv. Central States
Forest Expt. Sta. Tech. Paper 188, 10 pp. Apr. 1962.

PFEIFFER, R. E. 792 Michigan pulpwood production by counties—1959. Mich. Dept. Conserv., 8 pp. Lansing. 1960.

# Southern United States

CHRISTOPHER, J. F., and NELSON, M. E. 793 Southern pulpwood production, 1960. U.S. Forest Serv. South. Forest Expt. Sta. Forest Survey Release 85, 29 pp. 1961.

HAMILTON, H. R., BOWMAN, R. G., GARDNER, R. W., and GRIMM, J. J. 794
Appendixes for phase report on factors affecting pulpwood production costs and technology in the Southeastern United States to American Pulpwood Association. Battelle Mem. Inst., v.p., Columbus, Ohio. Aug. 1, 1961.

HOLEKAMP, J. A. 795 Logging cost research—the key to progress in southern pulpwood production. Ann. Forestry Symposium Proc. 11: 73-81. La. State Univ. Press. 1962. Meeting competitive materials costs.

NEWBERRY, T. C., and GRAVES, W. M. 796 Electric computer analysis of the pulpwood production survey. Ga. Tech. Eng. Expt. Sta. 45 pp. Atlanta, Ga. 1961.

PULPWOOD PRODUCTS AND SAW MILL LOGGING. 797
The South's 1959 pulpwood harvest. Pulpwood Prod. and Saw Mill Logging 8(10): 12-14, 16. Oct. 1960.

PULPWOOD PRODUCTS AND SAW MILL LOGGING. 798

South's pulpwood cut sets new record. Pulpwood Prod. and Saw Mill Logging 9(8): 18–20, 22, 24. Aug. 1961.

REDDOCH, J. W. 799

The Louisiana pulpwood bargain. Forests and People 11(3): 19–24. 1961.

ROBINSON, V. L., and NICHOLS, A. C. 800 Southern pulpwood production, 1961. U.S. Forest Serv. Southeast. Forest Expt. Sta. Forest Survey Release 59, 26 pp. 1962. STERNITZKE, H. S., and CHRISTOPHER, J. F. 801 Trends in southern hardwood production. Pulpwood Prod. and Saw Mill Logging 10(3): 24. Mar. 1962.

TODD, A. S., and NICHOLS, A. C. 802 1959 pulpwood production in the South. U.S. Forest Serv. Southeast. Forest Expt. Sta., U.S. Forest Serv. South. Forest Expt. Sta., and South. Pulpwood Conserv. Assoc., Forest Survey Release 56, 23 pp. 1960.

### Canada

SILVERSIDES, C. R. 803 Production, methods, and markets—Canada. Pulp and Paper 35(9): 74-76. May 1961.

### Byproducts

DORAN, A. B. 804
The tall oil industry of the United States; see era of continuing growth for industry during sixties. Nav. Stores Rev. Internatl. Yearb. 1960: 16, 25. 1960.

WAFER, J. M. 805 Tall oil industry. Tappi 43(4): 12A, 14A, 16A, 18A, 22A, 24A. Apr. 1960.

# VENEER, PLYWOOD

# Industry Status and Trends

CANADIAN BUREAU OF STATISTICS, INDUSTRY AND MERCHANDISING DIVISION. 806
The veneer and plywood industry, 1958, 20 pp. Ottawa, Ont.: Queen's Printer. 1960.

KREMERMAN, J. 807
The plywood industry in Israel and its foreign trade prospects. Thesis (M.S.), Univ. Washington. 1960.\*

MUELLER, L. A.

Veneer and plywood possibilities from low-grade logs.

In New horizons for Black Hills and Wind River lumber. Chicago and Northwest Ry. Sawmill Clinic Proc. 1961: 34–39. 1961.

Compares present plywood and lumber markets, and describes basic plant requirements and costs.

PLYWOOD MANUFACTURING ASSOCIATION OF THE PHILIPPINES 809
The plywood and veneer industry of the Philippines.
Fifth World Forestry Cong. Proc. 1960: 1083–86
1962.

U.S. DEPARTMENT OF COMMERCE, BUSINESS AND DEFENSE SERVICE ADMINISTRATION 810
Douglas fir plywood. U.S. Dept. Comm. Commercial Standard CS45-60, 20 pp. 1960.

# Firms and Their Processes

HERSTROM, C. A. 811
Economics of automation in plywood manufacture
Forest Prod. Jour. 10(8): 396–397. Aug. 1960.

KOENIGSBERG, E. 812
Applying linear programming to the plywood industry. Forest Prod. Jour. 10(9): 481–486. Sept. 1960. Softwood.

WHITE, R. A. 813
In a competitive market . . . five-ply or three-ply plywood? Forest Prod. Jour. 12(2): 97–100. Feb. 1962.

### Raw Material

HORN, A. G. 814
Veneer log production of standard grades up slightly, container grades down, Lake States, 1960. U.S. Forest Serv. Lake States Forest Expt. Sta. Tech. Notes 609, 2 pp. July 1961.

MENDEL, J. J., and GANSNER, D. A. 815 Veneer-log production and consumption in the Central States, 1960. U.S. Forest Serv. Central States Forest Expt. Sta. Tech. Paper 189, 7 pp. May 1962.

BARK, CHIPS, OTHER RESIDUES (See also Utilization of the Stand or Tree and the industry in question "Firms and their processes.")

APPLEFIELD, M. 816
The production and marketing of pine wood residues by small sawmills. Texas Forest Serv. Bul. 50, 14 pp. 1960.
East Texas.

BENTLEY, O. W. 817
Purchased chips—some practical aspects of their production and how to effect economies. South. Pulp and Paper Mfr. 23(9): 76, 78. Sept. 1960.
Transportation and storage.

CHRISTOPHER, J. F. 818
Pulpwood chipping installations in the midsouth.
U.S. Forest Serv. South. Forest Expt. Sta. Forest
Survey Release 87, 14 pp. 1962.

HAMPF, F. E., and MARTY, R. J. 819 New Hampshire pine-chip production. Northeast. Logger 10(12): 18–19. June 1962.

HORN, A. G. 820
Volume and use of wood residues from primary processing in Minnesota. U.S. Forest Serv. Lake States
Forest Expt. Sta. Tech. Note 622, 2 pp. 1962.

LOVEJOY, H. E. 821
Transporting wood chips by truck. Forest Prod.
Jour. 10(6): 282–286. June 1960.
Cost analysis of both long and short hauls in

MORGAN, H. L. 822
Wood chips from sawmill residues. Northeast.
Logger 11 (1): 12, 36–38. July 1962.
Includes production and equipment costs.

Oregon and Washington.

PAAVILA, H. D. 823
It costs more to use chips from sawmill residue.
Pulp & Paper Mag. Canada Woodlands Review,
pp. WR-264, 268, 270. June 1962.

PESEZ, G. A. 824
Use of mill residues for the paper industry. Northeast. Logger 8(9): 6–7, 30–34. Mar. 1960.
West, South and Northeast.

TOOHEY, J. T. 825
Effects created by a chipping program on the woodusing industries and the forest resource in the northeastern United States. Thesis (M.F.), State Univ.
New York Col. Forestry, Syracuse. 1960.

WHALEY, R. S.
Chips versus bolts. South. Pulp & Paper Mfr. 25 (4):
40. 1962.

YOUNG, C. E. 827
The economics of chips from mill residuals—supply and demand and mutual benefits. South. Pulp & Paper Mfr. 24(2): 55–56, 58, 60. Feb. 10, 1961.

Also Paper Indus. Mangt. Assoc. Yearb. 41: 83, 85,

87, 89. 1960.

# Poles, Piling, Posts

SKOLMEN, R. G. 828
Treating costs and durability tests of Hawaii-grown wood posts treated by double-diffusion. U.S. Forest Serv. Pacific Southwest Forest and Range Expt. Sta. Res. Note 198, 5 pp. 1962.

WILSON, A. K. 829 Northern Rocky Mountain pole production increased in 1959. U.S. Forest Serv. Intermountain Forest and Range Expt. Sta. Res. Note 79, 4 pp. Aug. 1960.

WILSON, A. K. 830 Northern Rocky Mountain pole production shows small gain in 1960. U.S. Forest Serv. Intermountain Forest and Range Expt. Sta. Res. Note 85, 4 pp. Aug. 1961.

### CHARCOAL

BLYTH, J. E. 831
Production of charcoal and charcoal briquettes—
Lake States. U.S. Forest Serv. Lake States Forest
Expt. Sta. Tech. Note 626, 2 pp. 1962.

BOLDT, C. E., and ARBOGAST, C. 832 Charcoal kiln operation for improved timber stands. Forest Prod. Jour. 10(1): 42-44. Jan. 1960.

Data on labor costs, charcoal prices, and wood costs are given so the breakeven point can be calculated.

CHRISTOPHER, J. F. 833 Charcoal industry grows in midsouth. U.S. Forest Serv. South. Forest Expt. Sta. Forestry Notes 139, 1962.

JARVIS, J. P. 834
The wood charcoal industry in the state of Missouri.
Univ. Missouri, Engin. Expt. Sta., Engin. Series Bul.
48, 31 pp. 1960.

KASILE, J. D.
Wood charcoal production in California 1961. U.S.
Forest Serv. Pacific Southwest Forest and Range Expt. Sta. Res. Note 210, 5 pp. 1962.

PRITCHARD, W. M. 836 Simplified batch retort permits economic charcoal production. Woodworking Dig. pp. 48-50. Mar. 1961.

Cost analysis; profitable product outlet for woodwaste.

TOOLE, A. W., and others.

Charcoal production, marketing, and use.
U.S. Forest Prod. Lab. Rpt. 2213. 137 pp. 1961.

P. H. Lane, C. Arbogast, W. R. Smith, R. Peter,

P. H. Lane, C. Arbogast, W. R. Smith, R. Peter, E. G. Locke, E. Beglinger, and E. C. O. Erickson, joint authors.

# PARTICLE BOARD, HARDBOARD, FIBERBOARD

BETHEL, J. S. 838
Future prospects for the wood panel-board industries. Soc. Amer. Foresters Proc. 1960: 51–53. 1961.
Hardboard, particle board, plywood.

CHIANG, T. I. 839
Hardboard: A manufacturing opportunity in Georgia. Atlanta, Ga. Inst. Tech., Engr. Expt. Sta., 58 pp. 1961.

Hardboard industry in the United States; estimates of eight southeastern states' market and origins of raw-material supply; projections of production, imports, exports, and consumption to 1970.

GOYDER, C. S. 840
Past progress and future prospects of insulating board in Canada. Forest Prod. Jour. 10(10): 553-555. Oct. 1960.

KAY, I. B. 841
If you're considering particle board, check these factors: raw material—proximity and cost, product—chipboard or flakeboard, capacity—at least 5 million square feet a year. Lumberman [San Francisco] 87(1):64-65. Jan. 1960.

# OTHER WOOD-USING INDUSTRY

CHIANG, T. I. 842 Laminated wood beams: A manufacturing opportunity in Georgia. Atlanta, Ga. Inst. Tech. Engr. Expt. Sta. 32 pp. 1961.

Market for glulam members and feasibility of lo-

cating a glulam plant in Georgia.

CROSS TIE BULLETIN PANEL. 843 Cross tie production. Cross Tie Bul. 41(12): 29, 32, 34-46. 38-39, 46. Dec. 1960. Moderator: W. L. Winham; members: P. D. Web-

Moderator: W. L. Winham; members: P. D. Webster, L. Hawkins, M. Hawkins, R. G. Juengel, J. W. Tyra.

ERICKSEN, L. N. 844
California boosts wood industry by introducing many new products. West. Conserv. Jour. 17(5): 39-41. Sept./Oct. 1960.

MENDEL, J. J., and KANEY, D. W. 845 Cooperage logs and bolts—production and consumption in the Central States—1960. U.S. Forest Serv. Central States Forest Expt. Sta. Note 153, 2 pp. Apr. 1962.

MERRICK, G. D. 846 Wood preservation statistics 1959. Amer. Wood-Preserv. Assoc. Proc. 56:249-283. 1960. Also Statistics for 1960, Proc. 57:219-253. 1961.

Forest Service, U.S. Department of Agriculture, in cooperation with the American Wood-Preservers'

Association.

RODENBACH, R. C. 847
Sources of lumber for furniture plants in North Carolina. U.S. Forest Serv. Southeast Forest Expt. Sta. in cooperation with Furniture, Plywood and Veneer Council of the North Carolina Furniture Assoc. Duke Power Co., and Southern Furniture Manufacturers Assoc. 8 pp. July 1960.

SHURR, S. H., and NETSCHERT, B. C. 848
Energy in the American economy, 1850–1975; an
economic study of its history and prospects. 771 pp.
Baltimore, Johns Hopkins Press. 1960.
Includes a chapter on fuel wood.

# OTHER FOREST INDUSTRY

# CHRISTMAS TREES, DECORATIVE PRODUCTS

BURLISON, V. H., and PITKIN, F. H. 849 Christmas tree growing in Idaho. Idaho Univ. Forest, Wildlife and Range Expt. Sta. Res. Note 20, 25 pp. Nov. 1962.

- DAMBACH, W. W. 850 Cost of Christmas tree production at Lake Forest Gardens. Amer. Christmas Tree Growers' Jour. 5 (2): 9. May 1961. Pennsylvania.
- FOX, H. W. 851 Christmas tree farming costs at Sinnissippi Forest. Amer. Christmas Tree Growers' Jour. 5(2): 5-8. May 1961. Pennsylvania.
- GILLIAM, J. H. 852 Growing and marketing Christmas trees. N.C. State Agr. Col. Ext. Cir. 436, 27 pp. June 1962.
- KLEIN, E. L. 853
  An analysis of the Christmas tree industry in Pennsylvania. Thesis (M.F.), Pa. State Univ. 1961.\*
- MARKS, R. T. 854 Growing Christmas trees in Montana. Mont. State Col. Ext. Bul. 316, 19 pp. June 1961.
- MITCHELL, G. H., and KENDRICH, J. G. 855 Production of Christmas trees within selected states in the North Central Region during the period 1948– 1956. Amer. Christmas Tree Growers' Jour. 4(4): 17–19, 37. Nov. 1960.
- SOWDER, A. M. 856 1960 Christmas tree data. Jour. Forestry 59(11): 829-830. Nov. 1961.
- THOR, E., and others. 857 Christmas tree production and marketing in East Tennessee. Univ. Tenn. Agr. Ext. Serv. Cir. 598, 31 pp. 1962.
- VOIGHT, A. O. 858

  An appraisal of the Pennsylvania Christmas tree industry. Pa. State Univ. Ext. Farm Econ. 4 pp. Sept. 1, 1961.
- WILSON, A. K. 859
  Severe decline in Montana Christmas tree shipments.
  U.S. Forest Serv. Intermountain Forest and Range
  Expt. Sta. Res. Note 98, 4 pp. July 1962.

WILSON, A. K.

An upswing in Montana's Christmas tree export.
U.S. Forest Serv. Intermountain Forest and Range
Expt. Sta. Res. Note 73, 4 pp. May 1960.

### NAVAL STORES

- BRIGGS, M. S. 861
  Rosin demand, supply readjusting; no changes in overall volume seen. Nav. Stores Rev. and Terpene Chem. 71(12): 6-9, 17. Mar. 1962.
- CROSBY, T. L. 862
  The last ten years of wood rosin. Amer. Paint Jour. 45 (11): 16, 18, 20. Nov. 21, 1960.
- KING, D. B., WAGNER, H. B., and GOLDS-BOROUGH, G. H.

  The outlook for naval stores. U.S. Dept. Agr. 89 pp. Nov. 1962.

Forest Service, Agricultural Stabilization and Conservation Service, Agricultural Research Service, and Statistical Reporting Service, cooperating.

- LANGDALE, H. 864
  Gum naval stores industry reviewed; entering into new and golden era. Nav. Stores Rev. Internatl. Yearb. 1960: 6. 1960.
- U.S. CROP REPORTING BOARD

  Naval stores 1959-60 annual report; production, supply, distribution, consumption and stocks of turpentine and rosin and related data for the United States, May 1960. 8 pp. Washington. 1960.
- U.S. CROP REPORTING BOARD 866 1960-61 annual report; production, supply, distribution, consumption and stocks of turpentine and rosin and related data for the United States. 8 pp. Washington. 1961.

# MAPLE PRODUCTS

- MORROW, R. R. 867 Relative values in maple sirup enterprises. Cornell Univ. Agr. Expt. Sta. Dept. Memo C-32. 3 pp. 1962.
- PASTO, J. K., and TAYLOR, R. D. 868 Economics of the central evaporator in maple syrup production. Pa. Agr. Expt. Sta. Bul. 697, 23 pp. Aug. 1962.

# FOREST-PRODUCT DEMAND, PRICE, MARKETING, TRADE

# DEMAND

GENERAL: CONSUMER AND HIS PREFERENCES

- BATES, B. 869
  Demand for redwood lumber grows as trade promotion programs increase. West. Conserv. Jour. 17(4): 71–74, 77, 85. July/Aug. 1960.
- CLARK, D. H. 870
  Utilization program keeps pace with consumer demands in wood products. West, Conserv. Jour. 17(4): 52, 54-55, 60-61. July/Aug. 1960.
- DUNCAN, D. P., SULLIVAN, E. T., SHIUE, C. J., and BEAZLEY, R. I. 871
  A study of consumer preference in Christmas trees.
  Jour. Forestry 58 (7): 537-542. July 1960.
  Minnesota.

- HANSEN, N. J., and HOLLAND, I. I. 872 A consumer preference study of charcoal in central Iowa. Iowa State Jour. Sci. 34(4): 709–712. May 15, 1960.
- HARBUCK, R. S.

  Consumer attitudes toward the use of lumber in dwellings. Thesis (M.F.), La. State Univ. 1961.\*
- McCONAUGHY, D. B. 874
  Forestry's concern for the ultimate consumer of wood. Thesis (M.F.), State Univ. N.Y. Col. Forestry, Syracuse. 1961.
- McLEOD, A. N.

  Per capita consumption, not growth in population, determines demand. Pulp and Paper 35 (18): 60-61.

  Sept. 4, 1961.

  Pulp and paper.

MONK, D. L. 876
The impact of Douglas-fir on southern pine sales in metropolitan Baton Rouge. Thesis (M.F.), La. State Univ. 1961.\*

U.S. DEPARTMENT OF AGRICULTURE, FOREST SERVICE AND COMMODITY STA-BILIZATION SERVICE

The demand and price situation for forest products. 39 pp. Washington. Nov. 1960.

U.S. DEPARTMENT OF AGRICULTURE, FOREST SERVICE AND AGRICULTURAL STABILIZATION AND CONSERVATION SERVICE

ERVICE 878
The demand and price situation for forest products. 47 pp. Washington. Nov. 1961.

U.S. DEPARTMENT OF AGRICULTURE, FOREST SERVICE AND AGRICULTURAL STABILIZATION AND CONSERVATION SERVICE

The demand and price situation for forest products. 51 pp. Washington. 1962.

WOODBURY, R. 880
The effect of population upon retail lumber sales in New Hampshire. Thesis (M.F.), Univ. N. H. 1960.\*

ZAREMBA, J. 881
Factors influencing the consumption of southern pine.
Jour. Farm Econ. Proc. Issue, Annual meeting of
Amer. Farm Econ. Assoc. and Western Farm Econ.
Assoc. at Colo. State Univ. Aug. 13-16, 1961.

ZAREMBA, J. 882
Family income and wood consumption. Jour. Forestry 59(6): 443–445, 448. June 1961.
Housing.

ZAREMBA, J. 883 Softwood lumber markets and southern forestry. Jour. Forestry 59(5): 360-362. May 1961.

ZAREMBA, J. 884

The vanishing lumber market for house exteriors.

Forest Prod. Jour. 10(12): 642-643. Dec. 1960.

Analysis and implications.

ZIVNUSKA, J. A. 885
The forest products mix in a changing economy. Soc. Amer. Foresters Proc. 1960: 57-63. 1961.
Shift in stumpage demand because of consumer-

product changes.

CONSUMPTION OF PRODUCTION GOALS, PROSPECTIVE REQUIREMENTS

(For material on short-term requirements, see the industry in question in FOREST INDUSTRY, "Industry status and trends.")

BHADRAN, C. A. R. 886 Effect of population pressures on timber needs. Fifth World Forestry Cong. Proc. 1960: 1060–1067. 1962.

CRAIG, G. A. 887
Forestry's space-age future—flying or falling? Jour.
Forestry 58(2): 93-98. Feb. 1960.
Short- and long-term outlook for wood products.

DUERR, W. A.

The future demand for wood. In The challenges of forestry, edited by R. E. Pentoney and W. L. Webb. pp. 61–68. N.Y. State Univ. Col. Forestry, Syracuse. 1961.

FIELD, J. W. 889

The future of paper in packaging. Tappi 45(12): 30A, 32A, 34A. Dec. 1962.

GUTTENBERG, S. 890 Who's going to use all this wood? La. State Univ. Forestry Symposium Proc. 10: 105-112. 1961.

HERRICK, D. E., and PHELPS, R. B.

New houses—how many have wood construction?
U.S. Dept. Agr. Forest Serv., Div. of Forest Econ.
and Marketing Res., 2 pp. Washington, D.C. 1961.

HEYWARD, F. 892 Future possibilities and limitations of the South's wood using industries. Amer. Forests 66(8): 45–46, 68–70. Aug. 1960.

INLAND DAILY PRESS ASSOCIATION
NEWSPRINT COMMITTEE, 1959–1960
893
The second midwest newsprint survey, a study of the 1951–1965 period for an inland 12-state area. Univ. Wis. Bur. of Business Res. and Serv. Pub. by Inland Daily Press Assoc., Chicago. 33 pp. 1960.
Also Wis. Commerce Rpt., Vol. VI. 1960.
Analysis of supply and demand for newsprint in 12 Midwestern states—North Dakota. South Dakota.

Midwestern states—North Dakota, South Dakota, Kansas, Nebraska, Minnesota, Iowa, Missouri, Wisconsin, Illinois, Michigan, Indiana, and Ohio.

LATHAM, E. B. 894
Development and markets for forest products: needs and techniques. Fifth World Forestry Cong. Proc. 1960: 1055–1059. 1962.

LUMBER SURVEY COMMITTEE 895
National survey of lumber demand and supply.
Lumber Survey Com. Quart. Rpt. 119 and 123, 16 pp.
each. Mar. 14, 1961 and Mar. 12, 1962.

LUNDGREN, A. L., and BEAZLEY, R. I. 896
Farm lumber consumption and use data: needs and methods of estimating. U.S. Forest Serv. Lake States Forest Expt. Sta. Paper 93, 20 pp. 1961.
A pilot study in Minnesota.

MEYER, H. L. 897
The international naval stores picture. Amer. Paint Jour. 45(10): 94–95, 98, 100–101, 104. Nov. 14, 1960.
Also Nav. Stores Rev. and Terpene Chem. 70(7): 4–7. Oct. 1960, and AT-FA Jour. 23(2): 6–7, 15–16. Nov. 1960.\*

PAPER TRADE JOURNAL
Outlook for market pulp here and abroad. Paper
Trade Jour. 144(36); 24–27. Sept. 5, 1960.

RITCHIE, J. L. 899
Future of Europe's fibre economy. Paperboard
Packaging 45(3): 57-58, 70, 72. Mar. 1960.
Pulp and paper.

SPAETH, J. N. 900
Forest land resources and projected timber needs. In Land Econ. Inst. Univ. III., 1958. pp. 215–222.
Modern land policy Urbana, III. Univ. III. Press, 449
pp. 1960.
To year 2000.

SPEER, J. S.

Role of timber supply and requirements analysis in formulating forest policy. Fifth World Forestry Cong. Proc. 1960: 1048-1051. 1962.

Germany.

UDELL, J. G. 902 An analysis of midwest newsprint consumption. With projections through 1965. Chicago, Inland Daily Press Assoc., Univ. of Wisconsin, Bur. Business Res. and Serv. 8 pp. 1961.

Also published as a Wisconsin Commerce Report,

1961.

903 UDELL, J. G. A new analysis of midwest newsprint supply and demand. With projections through 1965. Chicago, Inland Daily Press Assoc., Univ. of Wisconsin, Bur. of Business Res. and Serv. 8 pp. Oct. 16, 1962.

Also published as a Wisconsin Commerce Report.

1962.

U.S. CONGRESS, HOUSE, COMMITTEE ON 904 INTERSTATE AND FOREIGN COMMERCE World newsprint supply-demand outlook through 1964. Report—pursuant to Section 136 of the Legislative Reorganization Act of 1946, Public Law 601, 79th Congress, and House Resolution 108, 87th Congress. 87th Cong. 2d Sess., House Rept. 2273, 30 pp. 1962.

905 VESSEY, J. K. Is wood running out of our ears? South. Lumberman 201 (2513): 129-130. Dec. 1960.

WILSON, D. A. 906 Demand prospects for forest products. Resources Tomorrow Conf. Background Papers 2: 627-640. 1961.\*

ZIMMERMAN, E. W. The effect of population pressures on timber needs in the United States. Iowa State Jour. Sci. 34(4): 591-594. May 15, 1960.

908 ZIVNUSKA, J. A. Production costs and growth goals. Fifth World Forestry Cong. Proc. 1960: 1075-1077. 1962.

# PRICE

# STUMPAGE

BOWLES, W. D. 909 Soviet stumpage policy. Pulp & Paper Mag. Canada 63(4): 83–84. Apr. 1962.

GUTTENBERG, S., and ROW, C. Markets, timber quality influence southern pine stumpage prices. Timberman 62(10): 66-67, 69. Sept. 1961.

HEADY, D. R. A study of stumpage values in woodlot sales. Thesis (M.F.), State University College of Forestry at Syracuse University. 1960.

MASSIE, M. R. The price of white pine stumpage and lumber during the movement of New Hampshire sawmills into and out of production. Thesis (M.F.), New Hampshire University. 1962.

ROW, C., and GUTTENBERG, S. 913 Why pulpwood stumpage prices vary. Pulpwood Prod. & Saw Mill Logging 9(10): 14, 16. Oct. 1961.

U.S. FOREST SERVICE Stumpage prices and pricing policies in British Columbia. 17 pp. Washington. Apr. 1962.

WORLEY, D. P. 915 Predicting hardwood stumpage prices from sales data. Jour. Forestry 60(3): 181-183. Mar. 1962. Kentucky.

### OTHER PRODUCTS

CHRISTOPHER, J. F. 916 Midsouth's rising pulpwood values. South. Pulp & Paper Mfr. 25(7): 92. 1962.

CHRISTOPHER, J. F. 917 1960 pulpwood prices in the mid-south. South. Pulp & Paper Mfr. 24(7): 46. July 1961. Also "Pulpwood price trends in the mid-south." Pulpwood Prod. & Saw Mill Logging 8(8): 28. Aug. 1960.

CRAIG, G. A. 918 What is the trend in lumber prices? Jour. Forestry 58(7): 567-568. July 1960. Ponderosa pine.

FEDKIW, J., and STOUT, N. J. 919 Eastern white pine lumber grade price trends and relationships. Northeast. Logger 8(7): 14-15, 42-43. Jan. 1960.

920 HOLLAND, I. I. An explanation of changing lumber consumption and price. Forest Sci. 6(2): 171-192. June 1960.

HOLLAND, I. I. A suggested technique for estimating the future price of eastern white pine stumpage. Forest Sci. 6(4): 369-396. 1960.

McCAULEY, O. D. 922 Forest products prices in Ohio, 1959. U.S. Forest Serv. Central States Forest Expt. Sta. Tech. Paper 170, 14 pp. Mar. 1960.

ROBINSON, V. L. 923 1961 pulpwood prices in the Southeast. U.S. Forest Serv. Southeast. Forest Expt. Sta. Res. Note 181, 2 pp. Nov. 1962.

ROBINSON, V. L. Pulpwood price trends in the Southeast. U.S. Forest Serv. Southeast. Forest Expt. Sta. Res. Note 163, 2 pp. 1961.

ROW, C., and GUTTENBERG, S. Changing price patterns affect southern pine lumber industry. Jour. Forestry 60(2): 120-123. Feb. 1962.

SULLIVAN, E. T. A study of Christmas tree prices in the St. Paul-Minneapolis market. Jour. Forestry 59(4): 280-281. Apr. 1961.

### PRICE REPORTING

927 BRUCE, R. W. An evaluation of market reporting with possible implications for forest management. Northwest Sci. 32(2): 69-75. May 1960.

BRUCE, R. W. Opportunities in forest products marketing in the far west. Jour. Forestry 59(10): 748-752. 1961.

ROGERS, C. E. 929
Status of the timber price reporting program in Illinois. U.S. Dept. Agr. Market. Serv. AMS-388: 287-290. July 1960.

SIEMERT, H. F. 930

The need for improvement and expansion of marketing data programs for timber products. U.S. Dept. Agr. Market. Serv. AMS-388: 290-293. July 1960.

WEBSTER, H. H., HAGENSTEIN, P. R., and SCHREY, F. J. 931
Stumpage price reporting in Pennsylvania. Pa. Forests, Fall 1961, pp. 92–93. 1961.

# MARKETING, TRADE

#### GENERAL

#### General

BABCOCK, H. M. 932
Foreign trade in forest products from a point of view of an exporting country—Canada. Forestry Chron. 38(1): 56-62. Mar. 1962.

BLISS, P. 933 Canada regains solid share of U.K. market. Canada Lumberman 81(1):31, Jan. 1961.

CAMMARANO, A. M. 934

The marketing of lumber and forest products to the Government. Forest Prod. Jour. 11(9): 428-432. Sept. 1961.

CORCORAN, T. J. 935
Optimizing the market allocation of timber products from woodlands in multiple product situations. Thesis (Ph. D.), Purdue Univ. 1962.
Linear programming.

ELCHIBEGOFF, I. M. 936 U.S.S.R. international timber trade. Jour. Forestry 59(10):753-760. Oct. 1961.

HAIR, D. 937 United States' trade in timber products. Foreign Agr. 25(10): 12–14. Oct. 1961.

LANSIGAN, N. P. 938
Philippine woods in the world trade. Fifth World
Forestry Cong. Proc. 1960: 1986-1990. 1962.

LEWIS, S. H. 939 What about the export market? South. Lumberman 201 (2513): 159–161. Dec. 15, 1960.

LOVE, D. V. 940

The future of trade and investment in forest products between the United States and Canada. Forestry Chron. 38 (1): 49-55. Mar. 1962.

RATHMELL, J. H. 941
Basic fundamentals of marketing. Northeast. Logger 10(8): 16, 34, 46–47. Feb. 1962.

SHERMAN, D. 942
The U.S.-Canadian situation. Forest Indus. 89(9): 38–40. Sept. 1962.
Forest industry trade agreements.

SUTHERLAND, C. F. 943 Consumption and marketing of fowest products in the automobile industry. A case study of the Ford Motor Company. Thesis (Ph.D.), Univ. Michigan. 1961.\*

### Northern United States

BARRACLOUGH, K. E. 944 New Hampshire forest market report, 1960. N.H. Univ. Agr. Col. Coop. Ext. Serv. Cir. 356, 33 pp. 1960.

BARRACLOUGH, K. E. 945 New Hampshire forest market report, 1962. N.H. Univ. Agr. Col. Coop. Ext. Serv. Cir. 363: 45-51.

BARRACLOUGH, K. E., and SLOAN, R. P. 946 New Hampshire forest market report, 1961. N.H. Univ. Agr. Col. Coop. Ext. Serv. Cir. 358, 42 pp. 1961.

BLYTH, J. E. 947 Farm marketing of primary forest products in southeast Iowa. Thesis (M.F.), Iowa State College. 1960.\*

BLYTH, J. E. 948
Production of miscellaneous timber products, Lake States, 1960. U.S. Forest Serv. Lake States Forest Expt. Sta. Tech. Note 608, 2 pp. July 1961.

GRIFFIN, J. E., SIMMONS, F. C., and FOSS, E. W. 949
Utilizing conference on solving forest products marketing problems. Northeast. Logger 10(9): 14–19, 38–47. Mar. 1962.

HAMILTON, L. S. 950
Marketing problems and promotion in the sale of products from small woodlots. Forestry Chron. 38 (3): 295-302. Sept. 1962.
New York State.

HOLLAND, I. I. 951
Timber products marketing in the claypan region of Illinois. Ill. Agr. Expt. Sta. Bul. 689, 40 pp. Dec. 1962.

McCAULEY, O. D. 952 How to market your farm timber. Ohio Farmer 227 (4):12,66. 1961.

NORTON, N. A., and others.

Marketing forest products from small woodland areas in the Northeast. II. Buying practices of primary wood-using industries and other first handlers of rough forest products. III. Use of marketing assistance and information by forest products buyers and sellers. Pa. Agr. Expt. Sta. Bul. 670, 53 pp. June 1960.

M. D. Ostrander, J. H. Rich, L. C. Swain, O. P. Wal-

lace, and R. F. West, joint authors.

Agricultural Experiment Stations of Maine, Maryland, Massachusetts, New Hampshire, New Jersey, Pennsylvania, Vermont, West Virginia, and U.S. Department of Agriculture, cooperating.

SIMMONS, F. C. 954 Markets, uses and new developments for northern hardwoods. N.Y. Forester 19(1): 9-11. Feb. 1962.

SKOK, R. A. 955
Market practices and price formation for farm woodland products sales in northern and southern Minnesota. Thesis (Ph. D.), Univ. Minnesota. 1960.

SKOK, R. A., and BEAZLEY, R. I. 956
Marketing practices and price formation for farm
woodland products in northern southeastern Minnesota. Minn. Univ. School Forestry, North Central
Marketing Project 17-3, 483 pp. 1960.

SKOK, R. A., and BEAZLEY, R. I. 957 Marketing timber in southeastern Minnesota. Minn. Farm & Home Sci. 19(1): 9, 23. Fall 1961.

TURNER, M. S., and MITCHELL, G. H. 958 Farmer marketing of timber in eight southeastern Ohio counties. Ohio Agr. Expt. Sta. A.E. 316, 23 pp. 1960.

WHITE, D. E. 959
The market outlook for forest products. Northeast. Logger 10(9): 8-9, 40-42. Mar. 1962.

Also Forest Landowner's Forum Proceedings, sponsored by N.Y. State Forest Practice Board, pp. 5-11. Dec. 1961.

Mostly New York State; pulp and paper and lumber industries.

# Southern United States

KINABREW, R. G. 960
Marketing north Mississippi hardwood: prime quality and specialty types. Miss. Univ., Bur. of Business Res. 56 pp. 1960.

LANGE, K. D. 961
Selling stumpage by weight in the South: a case study. Jour. Forestry 60(11): 816–820. Nov. 1962.
Pulpwood and saw logs.

LANGE, K. D. 962
Timber sales by weight. Forest Farmer 20(2): 10-11. Nov. 1960.
Logs, poles, and pulpwood.

MEREDITH, T. H. 963
Marketing forest products in the eastern Ozarks.
Thesis (M.F.), Univ. Missouri. 1962.\*

SHARP, J. B., and WOODARD, A. W. 964
Marketing woodland products, Tenn. Agr. Col.
Ext. Paper 445, 7 pp. Mar. 1962.

WYNN, N. A., and CRAWFORD, D. E. 965
Economic analysis of timber marketing in South
Carolina, Clemson, S.C., Agr. Col., Agr. Expt. Sta. 1962.\*

# Western United States

BRUCE, R. W. 966

Problems of industrial purchases of private timber.
Pullman, Wash. Agr. Expt. Sta. Inst. Agr. Sci., Sta.
Cir. 382, 7 pp. 1961.
Eastern Washington.

HAGENSTEIN, W. D. 967
Forestry comes of age in Douglas fir region as trade promotion programs increase. West. Conserv. Jour. 17(4): 42–45. July/Aug. 1960.
Western Washington and Oregon.

KNUDSON. D. M. 968
Private stumpage marketing in western Colorado.
Thesis (M.F.). Colorado State Univ. 1960.\*

TEEGUARDEN, D., CASAMAJOR, P., and ZIV-NUSKA. J. 969

Timber marketing and land ownership in the Central Sierra Nevada Region. Calif. Univ. Agr. Expt. Sta. Bul. 774, 69 pp. Oct. 1960.

See also Calif. Agr. 14(7): 2-3. July 1960. California.

LUMBER, ALLIED PRODUCTS

ALLISON, R. C. 970
Marketing of lumber produced by sawmills in Pennsylvania. Thesis (M.F.), Pennsylvania State Univ. 1960.\*

BAKER, G. 971

How Maine sawmills market their lumber. Maine Agr. Expt. Sta. Misc. Pub. 651, 23 pp. Sept. 1961.

BALDERSTON, F. E. 972 Study of a West Coast lumber trade. 300 pp. Berkeley, Calif. 1960.

BATSON, J. O. 973
Can we meet our challenges? La. State Univ. Press, 11th Ann. Forestry Symposium Proc. pp. 104–107.
Baton Rouge, La. 1962.

Shift from concern for silvicultural welfare of the forest to emphasis of economics of the forest, and

lumber markets.

BEAZLEY, R., and LUNDGREN, A. L. 974
Farm lumber consumption and use, East-central
Minnesota, 1954. Minn. Univ. Agr. Expt. Sta., Scientific Jour. Series, Paper 4584, 58 pp. Mar. 1961.

BOLLE, A. W. 975.
The timber industry and the market for woodlot products in the Upper Flathead Valley. Mont. Business Rev. 12(4):3-7, 10-11. April 1960.
Also issued as a reprint Mont. Forest and Conserv.

Expt. Sta. Bul. 16, 8 pp. April 1960.

BOND, R. S.

Marketing lumber from Massachusetts sawmills.

Mass. Agr. Expt. Sta. Bul. 526, 58 pp. Aug. 1961.

BURPEE, C. M. 977 New markets ahead. South, Lumberman 201 (2513): 135–138. Dec. 15, 1960. Pressure preserved lumber.

CHRISTENSEN, W. W. and others 978

Marketing of lumber produced by sawmills in the
Northeast. Morgantown, W. Va. Agr. Expt. Sta. Bul.
478, 32 pp. June 1962.

H. H. Webster, G. Baker, N. A. Norton, and W. H. Reid, joint authors.

The first phase of a cooperative project to describe the structure of lumber markets in selected sections of Northeastern U.S.

GREGORY, G. R.

A statistical investigation of factors affecting the market for hardwood flooring. Forest Sci. 6(2): 123-134. June 1960.

GUTTENBERG, S., FASSNACHT, D., and SIEGEL, W. C. 980 Weightscaling southern pine saw logs. U.S. Forest Serv. South. Forest Expt. Sta. Occas. Paper 177, 6 pp. 1960.

HOLLAND, I. I. 981

Is lumber promotion enough? South. Lumberman 201 (2502): 25-27, 30, 38. July 1, 1960.

Construction market.

LEA, S. 982
The U.S. softwood lumber situation in a Canadian-American perspective. Canadian-American Comm.,
National Planning Assoc. 52 pp. Washington, D.C. 1962.

Import competition.

MANCINI, A. 983
Recent changes in lumber marketing in New York
State. Northeast. Logger 10(8): 17, 54. Feb. 1962.

McCAULEY, O. D., and WHITTAKER, J. C. 984
Buying practices and markets of Ohio's sawmills
1955–1958. U.S. Forest Serv. Central States Forest
Expt. Sta. Note 157, 2 pp. 1962.
Stumpage purchases on a lump-sum basis.

NEWKIRK, L. 985
The lumber-plywood market today. Veneers & Plywood 54(4): 8. Apr. 1960.

PAGE, R. H., and BOIS, P. J. 986 Buying and selling yellow pine saw logs by weight. Macon, Ga. Forest Res. Council Rpt. 7, 9 pp. 1961. Also in Forest Farmer 21(3): 10–12, 19. Dec. 1961.

ROW, C. 987
Canadians push lumber sales in U.S. markets. South.
Lumberman 204 (2542): 27–29. Mar. 1, 1962.
Southern pine competition.

ROW. C. 988 Seasons set pace for activity in the lumber business. Lumberman 88(1): 26-28. Jan. 1961.

ROW. C. 989 South's markets help southern pine. South. Lumberman 201 (2503): 26–27. July 15, 1960.

ROW, C. 990 Where does southern pine sell best? South. Lumberman 205 (2561): 105–106. 1962.

ROW, C. 991 Will southern pine exports revive? South. Lumberman 203 (2537): 109-111. Dec. 15, 1961.

SIEGEL, W. C., and ROW, C.
Selling sawlogs by the ton. Forest Farmer 19(1):
8-9. Sept. 1960.

Also in 20(7): 127-128. Mar. 1961, and 21(7):
123-124. Mar. 1962.

SIMMONS, F. C. 993 Opportunities for marketing mill residues. Northeast. Logger 10(9): 16-17, 38-39, 44-45. Mar. 1962. Northeastern United States.

SUTHERLAND, C. F. 994
The market for wood pallets in the auto industry—
a case study of Ford Motor Company. U.S. Forest
Serv. Lake States Forest Expt. Sta. Paper 104, 10
pp. 1962.

U.S. DEPARTMENT OF COMMERCE, BUSINESS AND DEFENSE SERVICE ADMINISTRATION, FOREST PRODUCTS DIVISION 995
United States lumber exports, 1960. 11 pp. Washington. 1961.

WHITMORE, R. A.

Lumber marketing by Vermont sawmills.

Expt. Sta. Bul. 630, 47 pp. Sept. 1962.

996

Vt. Agr.

### PULP, PAPER, BOARD

### Product

BOWLES, W. D. 997 What are the trends of Soviet foreign trade in pulp and paper? Paper Trade Jour. 144(14): 40-45. Sept. 19, 1960. HOLLAND, I. I. 998
Foreign trade in forest products from the point of view of an importing country: the United States.
Jour. Forestry 60(8): 538-545. Aug. 1962.
Mostly Canadian pulpwood and paper.

JEWETT, A. P. 999 Pulp and paper markets. Canad. Pulp & Paper Indus. 13(12):10-11. Dec. 1960.\*

NUTTALL, E. 1000 What's wrong with pulp marketing? Paperboard Packaging 46(8): 93, 95, 97, 99, 101–102. Aug. 1961.

U.S. DEPARTMENT OF COMMERCE, BU-REAU OF THE CENSUS, INDUSTRY DIVI-SION 1001 Pulp, paper, and board 1959. U.S. Bur. Census Cur. Indus. Rpt. Ser. M26A-09, 13 pp. Aug. 18, 1960.

U.S. DEPARTMENT OF COMMERCE, BUREAU OF THE CENSUS, INDUSTRY DIVISION 1002
Pulp, paper, and board, 1960. U.S. Bur. Census Cur. Indus. Rpt. Ser. M26A(60)-13, 13 pp. Aug. 1, 1961.

U.S. DEPARTMENT OF COMMERCE, BU-REAU OF THE CENSUS, INDUSTRY DIVI-SION 1003 Pulp, paper, and board, 1961. U.S. Bur. Census Cur. Indus. Rpt. Ser. M26A (61)-13, 13 pp. Aug. 15, 1962.

U.S. DEPARTMENT OF COMMERCE, BUSINESS AND DEFENSE SERVICE ADMINISTRATION

Pulp, paper, and board industry report: annual review. U.S. Business and Defense Serv. Admin. Pulp, Paper and Board Indus. Rpt. 16(1), 19 pp. Mar. 1960.

Includes papers by W. L. Neubrech, J. R. Mutzabaugh, J. J. Bartosiewicz, and V. M. Elliott.

U.S. DEPARTMENT OF COMMERCE, BUSINESS AND DEFENSE SERVICE ADMINISTRATION 1005

Pulp, paper, and board industry report: annual review. U.S. Business and Defense Serv. Admin. Pulp, Paper and Board Indus. Rpt. 17(1), 22 pp. Mar. 1961.

### Wood Raw Material

HAMILTON, S. W. 1006
Purchase of pulpwood by weight. Northeast. Logger 11(1): 10–11, 32–35. July 1962.
New York.

HARDY, S. S. 1007 Weight as a basis for purchase of spruce and fir pulpwood. Thesis (M.F.). University of Maine. 1961.\*

JAMES, L. M., and LEWIS, G. D.

Michigan pulpwood production and markets. Mich.

Agr. Expt. Sta. Q. Bul. 42(4): 814–826. May 1960.

LEWIS, G. D. 1009

An analysis of pulpwood marketing in Michigan.

Thesis (Ph. D.). Michigan State University. 1961.\*

WHEELAND, H. 1010
Buying pulpwood by the pound. Thesis (M.F.).
University of Michigan. 1961.\*

### CHRISTMAS TREES

(For material on both production and marketing of Christmas trees, see FOREST INDUSTRY, Other Forest Industry, Christmas trees, decorative products.)

- ALTHOUSE, J. B. Christmas trees-1960. Amer. Christmas Tree Growers' Jour. 5(3):18. Aug. 1961. Pennsylvania statistics.
- BRIGHTWELL, C. N. A study of Christmas tree marketing in Georgia, December 1961. Thesis (M.F.). University of Georgia. 1962.\*
- CONKLIN, M. J. The homeowner market for Pacific Northwest Christmas trees. Oreg. Agr. Expt. Sta. Misc. Paper 122, 11 pp. Nov. 1961.
- CONKLIN, M. J. The market for Pacific Northwest Christmas trees. Amer. Christmas Tree Growers' Jour. 6(1): 8-10, 58. Feb. 1962.
- GORDON, R. V. N. 1015 Michigan's market for Christmas trees. Foreign Trade 116(4): 15-16. Aug. 12, 1961.
- MITCHELL, G. H., and KENDRICK, J. G. Retailing and wholesaling of Christmas trees within selected areas, North Central Region. Wooster, Ohio, Agr. Expt. Sta. Res. Bul. 872, 28 pp. 1961.
- MITCHELL, G. H., and QUIGLEY, K. L. Retailing of Christmas trees in three selected Ohio markets. Ohio Agr. Expt. Sta. Res. Cir. 81, 17 pp. Jan. 1960.

### OTHER PRODUCTS

- FIVAZ, A. E. 1018 Trends in foreign markets for cross ties. Cross Tie Bul. 41(1): 11-14, 16, 18, 19-22. Jan. 1960.
- MAKINO, S. 1019 A ten-year forecast for imported hardwood plywood. Oreg. Business Rev. 19(11): 1-6. Nov. 1960.

- MANTHY, R. S. Marketing posts, poles and piling in the north central region. Thesis (M.F.). Michigan State University. 1962.\*
  - WARNER, J. R., and ESSEX, B. L. 1021 Trends in the Wisconsin charcoal market. U.S. Forest Serv. Lake States Forest Expt. Sta. Paper 80, 22 pp. Mar. 1960.

# TRANSPORTATION

(For logging transportation, see FOREST INDUSTRY, Timber-Harvesting Industry, Transportation.)

BARTLEY, H. N. Material handling economics of unloading pulpwood from rail cars. Paper Trade Jour. 144(33): 36-37. Aug. 15, 1960.

Costs of mechanical versus hand unloading of various types of cars.

- HOLLAND, I. I., and JUDGE, G. G. How to gauge the efficiency of lumber distribution. Forest Indus. 89(9): 42-44, 106-107. Sept. 1962. An analysis of the interregional flow of softwood lumber against which the present lumber distribution system can be measured.
- HOLLAND, I. I., and JUDGE, G. G. The spatial structure of the lumber industry: estimated interregional flows and price differentials. Univ. of Ill., Col. of Agr., Dept. of Agr. Econ. Res. Rpt. AERR-52, 42 pp. 1962.

A linear programming transportation model is used.

- JAMES, L. M., and LEWIS, G. D. 1625 Transportation costs to pulpwood shippers in lower Michigan. Mich. Agr. Expt. Sta. Q. Bul. 42(3): 444-469. Feb. 1960.
- SAMPSON, R. J. Rail distribution of Oregon forest products, 1948 and 1958. Oreg. Business Rev. 20(2): 1-4. Feb. 1961.

# AUTHOR INDEX

Abbott, H. G	543	Bennett, A. L 397	Canadian Pulp & Paper Indus-
"ABC" British Columbia lu		Benson, R 478	try 730, 762, 763
ber trade directory		Bentley, J. R. 485	Carey, D. M 164
Abetz, K		Bentley, O. W 817	Carney, R. B 203
Achoch, M. S.		Bentley, W. R. 512	Carter, J. E. F 236
Adams, H. E.		Berger, J. M 86	Carvell, K. L 479
Adams, L		Bergoffen, G. S. 143	Carver, J. A 344
Adams, R. S.		Best, A. L 103	Casamajor, P 251, 969
Adams, T. C		Bethel, J. S 19,838	Chappelle, D. E 521
Adams, W. R.		Bethune, J. E 436	Chase, C. D 48
Agnew, C. R		Bettendorf, H. J 729	Chiang, T. I
Alabama Department of Co		Beuter, J. H 654	Chittenden, A. E. 11
servation		Bhadran, C. A. R 886	Christen, H. E 31
Albert, F. A.	435	Billings, F 254	Christensen, W. W 562, 978
Allen, S. W		Black, J. A 694	Christopher, J. F 653, 688, 689,
Allison, G. R		Black, P. E 342	793, 801, 818, 833, 916, 917
Allison, J. H		Bliss, P 933	Clapham, J. C 710
Allison, R. C.		Blyth, J. E 831, 947, 948	Clark, D. H 870
Althouse, J. B.		Bobone, M. L 119	Clark, J. H 626
American Forest Products 1	In-	Boden, W. A	Cliff, E. P 373
dustries 21,		Bois, P. J 581, 986	Coan, N 374
25, 26, 51, 52, 53		Boldt, C. E 832	Cole, A. B 279
Amidon, E		Bolle, A. W 343, 975	Collins, B. C 345
Amidon, E. L	724	Bond, R. S 976	Comer, F. G 56
Amidon, G. B.		Bones, J. T	Compton, C. K 307
Anderson, G. A.		Boone, D 307	Compton, W 128
Anderson, J	126	Booth, E. J. R. 567	Conklin, M. J 1013, 1014
Anderson, M. L		Bork, J 666	Conklin, R. P 316
Anderson, W. C.		Bork, J. H 669	Connaughton, C. A 346
Andress, J. M		Bowles, W. D 618, 909, 997	Coombs, C. L2
Andrews, W. H	371	Bowman, R. G 794	Cooney, E. A 280
Applefield, M		Bramlett, G. A. 63	Cooper, W. E 294, 470
Arbogast, C		Branan, N. C 751	Copes, P 108
Armstrong, G. R 57		Braue, R. W 619	Copisarow, A. C. 217
Arthur, J. L		Brender, E. V 301, 437	Corcoran, T. J. 935
Arthur-Davies, J. T		Brickell, J. E 695	Cothren, V. W 16
Artman, J. O		Briegleb, P. A 55	Countryman, D 165
Ashman, R. I		Briggs, C. W 160, 161, 162	Coutu, A. J 295, 296, 461, 462
Association for Multiple U		Briggs, M. S 861	Cowan, C. S 533
of Maine Timberlands		Brightwell, C. N 1012	Cowan, D. R. 463
Babcock, H. M		Bromley, W. S 16, 243	Craig, G. A 166, 199, 200, 201,
Bagley, W. T		Bruce, R. I 520	404, 449, 678, 679, 887, 918
Bain, R		Bruce, R. W 459,	Crane, J. R 425
Baker, G		460, 677, 695, 927, 928, 966	Crawford, D. E 965
Baker, W. J		Brundage, R. C. 582, 583	Crosby, T. L 862
Balderston, F. E	972	Bruner, M. H 263	Csizmazia, J 490
Baldwin, P. C	727	Bruns, P. E. 197	Cunningham, R. N. 308
Ballaine, W. C	158	Buck, D. E 235	Curtis, F. H 405
Barclay, H. I	159	Buckman, R. E 29	Cushwa, C. T
Barford, B	646	Burlison, V. H	Dambach, W. W 850
Barger, R. L	85	Burns, P. Y 544	Dana, S. T 153, 308
Barr, C. R		Burpee, C. M 977	Davidson, R. R. 32
Barraclough, K. E 94		Bury, R. L 220	Davis, L. S541
Barrett, L. I 12	7, 142, 262	Byers, A. M 642	Dean, N. E
Barth, N		Byrne, J. J 670	Department of Natural Re-
Bartley, H. N.	1022	California Department of Nat-	sources 657
Barton, J. H	257	ural Resources 655, 656	Derr, H. J 482
Bartoo, R. A		California State Board of	De Wolf, J764
Bates, B		Equalization 198	Dickinson, F. E
Batson, J. O		Callahan, J. C. 9, 30, 163	Dimock, E. J 504
Baumgartner, D. C.		Cammarano, A. M. 934	Din, U. A
Bayless, B. J		Canada Department of North-	Dingle, R. W 505
Beazley, R. I		ern Affairs and National	Dinh, T. T. 680
315, 372, 871, 896, 956	6, 957, 974	Resources 104	Directory of Western Pulp and
Becker, W. B	543	Canadian Bureau of Statistics 105,	Paper Mills 584
Beglinger, E	837	106, 107, 575, 576, 577, 578,	Directory of the Wood Prod-
BOIL III	007		
Bell, J. F Bendetsen, K. R	205	663, 697, 698, 699, 700, 761, 806.	ucts Industry 585 Dobson, P. O 529

Donnelly, R. H		Golden, E. A	Horn, A. G. 34, 702, 782, 783,
Doran, A. B		Goldsborough, G. H 863	784, 785, 786, 787, 814, 820
Dosker, C. B		Goodspeed, A. W 479, 562	Horton, K. W 488
Dotta, D	658	Googins, P. H 670	House, W. P 44
Dowdle, B	309, 464, 711	Gordon, R. V. N. 1015	Howard, W. E 401
Doyle, H. J	717	Gould, E. M 220, 340, 377, 378, 426	Huey, B. M85
Duerr, W. A		Goundrey, G. K 318	Hughes, J 760
Duncan, D. P	871	Goyder, C. S 840	Hungerford, N. D 439
Dunn, T. T		Grah, R. R. 408, 486	Hunt, E. R. 205
Duvall, V. L		Grano, C. X 500	Hurd, E. S 402
Dyson, P. J		Grantham, J. B 88	Hutchison, O. K 282
Eaton, C. B		Graves, W. M 796	Hutchison, S. B 380, 452
Edwards, R. Y	392	Gray, J. R712	Huxster, W 714, 715
Elchibegoff, I. M	936	Greeley, A. W 347	Inland Daily Press Associa-
Ellertsen, B. W		Green, L. R 485	tion Newsprint Committee 893
Ellis, R. M		Gregory, G. R 979	Inserra, P 265
Emerson, W. A	752	Griffin, J. E 949	Ise. J 144
Entrican, A. R	406	Grimm, J. J 794	Jackson, N. D 562, 683
Ericksen, L. N	844	Grote, F. R623	James, G. A
Erickson, E. C. O	837	Gruenfeld, J 409	James, G. S 145
Essex, B. L	1021	Guthrie, J. A 570	James, L. M. 37,
Estes, J. E	634	Guttenberg, S 319, 394, 438, 445,	146, 168, 283, 788, 1008, 1025
Eyre, F. H		772, 890, 910, 913, 925, 980	Jarvis, J. P 834
Falk, H. W		Hagenstein, P. R 309, 560, 563, 931	Jeffers, D. N 525
Fassnacht, D		Hagenstein, W. D. 410, 967	Jensen, J. G 17
Fedkiw, J.		Hair, D937	Jewett, A. P999
	531, 721, 722, 919	Hall, G. R681	Jiles, R. A
Ferguson, E		Hall, O. F 204, 320	Johnson, E. S 552
Ferguson, R. H		Hall, R. C	Johnson, R. S. 169, 255
Ferrier, J. A.	W - 0	Hall, S 667	Johnson, W. H 91
Field, J. W		Halls, L. K	Jones, A 248
Filip, S. M		Hamill, L6, 524	Jones, A. R. C 348
Findell, V. E		Hamilton, H. R. 237, 794	Jones, E. P 501
Fischer, F		Hamilton, L. S 154, 950	Jones, T. A 775
Fish, R. B		Hamilton, S. W 1006	Josephson, H. R
Fisher, J. O	0.0.1	Hampf, F. E	Judge, G. G. 1023, 1024
Fivaz, A. E	4040		Juengel, R. G843
			Kalkkinen, E14
Flora, D. F Folweiler, A. D			Kaney, D. W845
Forest Department			Kang, H
Burma			Kasile, J. D 835
Forest Farmer			0.11
	589, 590, 591, 592	Hardy, S. S. 1007	0.10
Forest Industry		Harrar, E. S	Keaney, J. V 249 Kearns, F. W 36, 37
Forests & People		· ·	
Forgie, D. J.		Harrison, J. D. B 13 Hart, G 481	Kendrich, J. G
Fortin, L. W		ma.	Keniston, R. F. 256, 304
Foscue, E. J.		Haskell, H. H	Keppler, W. E 714, 715 Ker. J. W 211, 487, 489, 490
Foss, E. W.		Hauberg, J. H. 259, 469	
Fowler, R. M.		Haufe, H	Kerr, L. J
Fox, H. W		Hawkins, L	Kimberly, J. R. 732
Fransen, W		Hawkins, M843	Kinabrew, R. G. 960
Frazier, G. D.		Heacox, E. F. 400	King, D. B. 549, 863
Fregren, D. H	157	Heady, D. R. 911	King, J. E 450
French, G. E		Hefner, J. E	King, W. W. 636, 665
Fritz, E		Heinsdijk, D	Klawitter, R. A. 542
Fritz, W. G.		Hendee, C. W 536	Klein, E. L
Frolund, H		Herrick, A. M. 333, 334	Kline, R. F. 643
Gaffney, M. M		Herrick, D. E	Knapp, F. M. 651
Gamble, H. B		Herrington, R. B. 90	Knudson, D. M. 968
Gansner, D. A		Herstrom, C. A 811	Koenigsberg, E 812
Gardner, R. W		Heyward, F 252, 892	Korosi, J. J 206
Garey, C		Highsmith, R. M. 17	Kremerman, J807
Garratt, R. M		Hinman, J. H. 132	Kreuschmer, D. H. A. 349
Gatherum, G. E		Holekamp, J. A 795	Kreutzinger, M 515
Gedney, D. R		Holland, I. I 223, 281, 872, 920,	Laber, A. W305
Geyer, W. A		921, 951, 981, 998, 1023, 1024	Lagerloef, E. G 768, 769
Gibson, J. M	457		Lamb, A. F. A
Gibson, W. K.	569	Hollenbaugh, W. C. 379	Lambe, T. A. 710
Gignac, T	672	Holt, L 255	Landon, P. E
Gill, C. B		Holt, S. G 773	Landt, E. F 571
Gillam, D. S		Hood, A. B16	Lane, D. E
Gilliam, J. H	852	Hooker, L. W 713	Langdale, II
Glesinger, E		Hopkins, F. S 228, 310, 496, 722	Lange, K. D 961, 962
Goforth, M. H		Horn, A. F 35	Lansigan, N. P. 938
	, , ,		

La Page, W. F 224	McNally, J. A 624	Ontario Department of Eco-
Larson, E. V. H 38	McSwiney, J. W 776	nomics 114, 115
Larson, R. W59, 60, 61, 62	Mead, W. J 149, 324, 706	Oregon Business Review 239
Latham, E. B 894	Mendel, J. J 42,	Oregon State Tax Commission_ 176
Lathrop, H. E 522	789, 790, 791, 815, 845	Orell, B. L 381
Lawrence, W. H 400	Meredith, T. H 963	Orrell, C. D 210
Lea, S 982	Merrick, G. D 846	Ostrander, M. D. 953
Lead, W. B 467	Meyer, H. A 414	Outdoor Recreation Resources
Le Barron, R. K 454	Meyer, H. L 897	Review Commission 382, 383
Le Grande, W. P 436, 542	Meyer, W. H 440, 553	Owston, P. W 498
Lehman, J. W635, 690	Meyers, J. W 470	Paavila, H. D 823
Lentz, A. N 284	Miglieco, A 174	Page, R. H
Lewis, G. D 170,	Miles, J 625	Panel 177, 469, 470, 626, 843
788, 1008, 1009, 1025	Miles, J. G 166	Panshin, A. J. 19, 779
Lewis, S. H. 939	Miller, C. E 637	Paper Trade Journal 898
Liniger, P. F 171	Miller, C. R 753	Pardo, R 212
Little, D. B. 489	Miller, R. L 298, 299, 661	Pasto, J. K 868
Livermore, N. B 166	Miller, R. M 208	Paul, B. H 494
Lockard, C. R7	Milne, D. W 325	Pauley, J. C 177
Locke, E. G 837	Minckler, L. S. 499, 517	Peck, A
Lockman, M. R 538	Minore, D 92	Peevy, F. A 502
Lockwood's Directory 594	Misiak, R. D 723	Pellicer, X. L 337
Longwood, F. R 33	Mitchell, G. H 855, 958, 1016, 1017	Pennsylvania Department of
Lott, E. J 30	Mitchell, J 441	Forests and Waters 602
Lotti, T 542	Mitchell, W. C 468	Pepler, W. A. E 136
Love, D. V 110, 940	Moak, J. E 691	Perry, J. D 182
Lovejoy, H. E 821	Moise, W. L 336	Perry, R 579
Lowry, S. T 266	Monin, M. A 123	Pesez, G. A
Lumber Survey Committee 895	Monk, D. L 876	Peter, R837
Lumberman 595, 704, 705	Monk, D. R 113	Peterson, E. L
Lundgren, A. L 207, 474, 896, 974	Moore, A. M 175	Peterson, F. T. 737
Lussier, L. J. 648	Moorhead, G. R 284	Pfeifer, R. E 34, 37, 792
MacGregor, J. J8, 311	Morgan, H. L 822	Phelps, R. B. 777, 891
MacNaughton, V. B. 395	Morgan, H. W 554	Pickford, G. D. 454
MacQueen, I. C673	Morrison, W 649	Pikl, I. J240, 566, 692
Mactavish, J. S 537, 538	Morriss, D. J 351	Pitkin, F. H
Makino, S 1019	Morrow, R. R. 429, 867	Plass, W. T 517
Malsberger, H. J 16	Mosebrook, H. S 565	Pleasonton, A 394
Mancini, A. J 686, 983	Mosher, M. M 453	Plochmann, R 477
Manitoba Forest Service 111, 112	Moss, W. T 476	Plywood and Board Products
Mann, W. F. 482	Mueller, L. A 808	Directory 603
Mantel, K 134	Muench, J 277, 568	Plywood Manufacturing Asso-
Manthy, R. S. 1020	Mullins, W. H 326, 327	ciation of the Philippines 809
Marcus, L. F 220	Murphy, H. E 263	Pogue, H. M. 116
Marks, R. T 854	Murphy, J. R 238	Pomeroy, K. B. 16, 385
Marlin, C. B 335	National Lumber Manufac-	Pond, J. D
Marquis, R. W 39, 40	turers Association 707, 708	1 000, 22, 22, 22
Marshall, T321	Neff, P. E 352	1000
Martin, I. R. 267, 297, 322	Nelson, F. B	Liably II. Deller
Marty, R. J. 323,	Nelson, M. E 793	
330, 546, 547, 549, 819	Nelson, R. E93	
Mason, D. T. 135, 172	Nelson, R. J 670	Pulp & Paper Tagezine Cap
Mason, I. J	Nelson, U. C. 403	Pulp & Paper Magazine Can- ada 740
Massie, M. R. 912	Netschert, B. C	Puln and Paper Manual of
Matson, E. E	Neubrech, W. L 733, 734, 735, 736	Canada605, 606
May, R. H	New England Business Re-	Pulpwood Products & Saw Mill
McArdle, R. E 312, 350, 411	view 353	Logging 607, 608, 797, 798
McCauley, O. D41,	New Hampshire Forestry and	Quaile, G. E 627, 628, 629
282, 922, 952, 984	Recreation Commission 597, 598	Quam, A. N 528
McClay, T. A	Newberry, T. C 796 Newkirk, L 985	Quigley, K. L41, 1017
McCloskey, J. M. 148	200	Quinney, D. N 137, 286, 287
McComb, W. H	Newman, J. A	Ramke, T. F 300
McConnen, R. J 313	Newport, C. A 470, 527, 550, 724	Ramsing, K. D 178
McCormack, R. J 488	Nichols, A. C 61, 62, 800, 802	Rankin, A. G 328
McCormick, L. E 596	Norden, R. L. 43	Rasmussen, B. L. 469
McCulloch, W. F 469	North Carolina Department of	Rathmell, J. H 941
McDermid, R. W	Conservation and Develop-	Raunikar, R. 567
McGinnies, W. G. 41	ment 599	Rawls, I. W 471
McGowin, J. F		414 047
		Recknagel, A. B. 414, 747
McKee R (3	Northeastern Logger 561,600	Recknagel, A. B. 414, 747 Reddoch, J. W. 799
McKee, R. G. 469	Northeastern Logger 561,600 Northwestern Lumbermens	Reddoch, J. W 799
McKusiek, H. A	Northeastern Logger 561,600 Northwestern Lumbermens Association 601	Reddoch, J. W
McKusick, H. A	Northeastern Logger         561,600           Northwestern Lumbermens         601           Association         953,978	Reddoch, J. W
McKusiek, H. A	Northeastern Logger 561,600 Northwestern Lumbermens Association 601	Reddoch, J. W. 562, 978

Rich, S. U	Sowder, A. M	U.S. Department of Agricul-
Ripley, T. H 386 Ritchie, J. L 754, 778, 899	Spada, B	ture, Forest Service and
Robinson, V. L 800, 923, 924	Spaeth, J. N	Agricultural Stabilization and Conservation Service 878,
Rockefeller, L. S 387	Staebler, G. R. 509, 510, 511, 516	879
Rodenbach, R. C 717, 847	Staebner, R. C 185	U.S. Department of Agricul-
Roe, A. L	Stagner, H 354	ture Forest Service and
Rogers, C. E. 929	Stedman, C. K	Commodity Stabilization
Rogers, G. W. 94	Steele, H. E242	Service 877
Romancier, R. M	Sternitzke, H. S 66, 67, 68, 69,	U.S. Department of Commerce,
Rook, S. F	70, 71, 72, 73, 503, 653, 801 Stevenson, D. D. 414, 442	Bureau of the Census 685, 1001, 1002, 1003
Rose, B. B 63	Stevenson, L. T 742	U.S. Department of Commerce.
Row, C 241,	Stewart, B. E 390, 391	Business and Defense Serv-
910, 913, 925, 987, 988, 989,	Stock, J. R237	ice Administration 810,
990, 991, 992.	Stoddard. C. H 44, 269, 555	995, 1004, 1005
Rudd, R. D.	Stoltenberg, C. H231,	U.S. Department of the In-
Rush, J. D	330, 434, 472, 549	terior 358, 455
Ruth, R. H	Stone, J. H	U.S. Department of Labor, Bureau of Labor Statistics 245
Ruttan, R 630	Storey, T. G 534, 535	Bureau of Labor Statistics 245 U.S. Department of Labor,
Rutten, V. W9	Stout, N. J 496, 721, 722, 749, 919	Wage and Hour and Public
Ryker, R. A. 499, 517	Stover, W. S 74	Contracts Division 246
Sampson, R. J 1026	Streyffert, P. T 417, 418, 419, 420	U.S. Farm Credit Administra-
Samson, N. T 64, 179, 180	Sullivan, E. T. 871, 926	tion 339
Sandison, G. D. 177	Sutherland, C. F., Jr 186,	U.S. Forest Service 20, 76, 125,
Santopolo, F. A	291, 943, 994	152, 222, 359, 443, 556, 914
Schmidt, O. A	Swain, L. C	U.S. Forest Service, Division of Cooperative Forest Fire
Schores, D. D	Symington, D. F 117	Control 540
Schrey, F. J. 931	Tardif, G	U.S. Forest Service, Division
Segur, J. A 415	Tattersall, J. N 572	of Forest Economics Re-
Seigworth, K. J. 257	Taylor, G. D 392	search613
Sellers, J. D. 523	Taylor, N. E 232	U.S. Forest Service Inter-
Sharp, J. B. 964	Taylor, R. D 868	mountain Forest and Range
Sharpe, G. W 1 Sheehan, L 181	Taylor, T. L 644, 645	Experiment Station 227 U.S. Forest Service Lake
Sherman, D 942	Teeguarden, D 251, 969 Tessier, J. P 211, 530, 651	U.S. Forest Service Lake States Forest Experiment
Shipley, R. C 250	Thompson, A. E	Station225
Shipmen, G 177	Thompson, W. P 270	U.S. Forest Service, Pacific
Shisko, S 650	Thomson, G. W 472	Northwestern Forest and
Shiue, C. J	Thor, E 857	Range Experiment Station 662
Shook, E. A	Thorne, H. W. 49	U.S. Forest Service South-
Siegel, W. C 182, 338, 980, 992	Tilton, F. B 626 Timber Canada 612	eastern Forest Experiment Station
Siegworth, H. D 518	Tinney, W. A 528	Station 77 U.S. Tennessee Valley Au-
Sieker, J 388	Tipple, N. E	thority _ 78, 79, 80, 360, 361, 362, 638
Siemert, H. F930	Todd, A. S 75, 802	United States Pulp Producers
Silker, T. H 475, 483	Tolbert, S. A 124	Association 743, 744
Silversides, C. R 626, 650, 803	Toohey, J. T. 825	Urquhart, B 271
Simmons, F. C631, 718, 719, 949, 954, 993	Toole, A. W 50, 837	Vaissiere, J. De 363
Simonson, J. E 87	Trestrail, R. W 187 Trimble, G. R 430, 481, 674	Vande Linde, F. 444
Simpson, R. M 632	Tseplyayev, V. P 140	Van Duyne, R. W
Sisam, J. W. B. 253	Tubbs, C. H	Van Voorhis, R. H
Sitterley, J. H. 371	Turnbull, K 450	Vasiliev, P. V 141
Sizemore, W. R 65, 183	Turner, M. S 958	Vaux, H. J 188, 233
Skok, R. A. 184, 478, 955, 956, 957	Twiss, R. H 139	Vessey, J. K 905
Skolmen, R. G. 828	Tyra, J. W 843	Voight, A. O
Slatin, B 741, 755, 756, 757, 758 Sloan, R. P 946	Udell, J. G 902, 903	Von Deichmann, V 495
Smith, F	U.S. Congress 97	Voorn, H
Smith, G. W 633, 683, 715	U.S. Congress, House Commit-	Wackerman, A. E. 189
Smith, J. II. G 487, 489, 490, 530, 539	tee on Agriculture 357	Wafer, J. M
Smith, N. F 37	U.S. Congress, House Commit-	Wager, J. A
Smith, R. C	tee on Interstate and For-	Waitt, M. G 214
Smith, W. R. 226, 837	eign Commerce 904	Walker, L. C 476
Soares, R. O	U.S. Congress, Senate Commit-	Wallace, O. P 953
Solberg, E. D	tee on Interior and Insular	Warner, J. R
Southern, J. H299	Affairs 151 U.S. Crop Reporting Board 865,	Washington Department of
		The state of the s
		Natural Resources 98
Southern Hardwood Producers610	866	Natural Resources 98 Weatherby, H 215
Southern Hardwood Pro-		0.4 #

Webster, P. D 843	Whittaker, J. C 984	Worthington, N. P. 456,
Weinberg, E 745	Wikstrom, J. H 506	507, 508, 509, 510, 511
Welch, L. D639	Williams, E. T 186,	Wright, B. S 676
Wellner, C. A 506	191, 192, 193, 216	Wright, B. V 759
Wells, C. M 639	Williston, H. L. 395	Wylie, J. E
West Coast Lumbermen's As-	Wilson, A. K 100,	Wynn, N. A 965
sociation 99, 614	101, 573, 661, 829, 830, 859, 860	Yale University, School of For-
West, R. F 953	Wilson, A. W 746	estry 258
Western Conservation Jour-	Wilson, D. A	Yoho, J. G. 75, 270,
nal 615, 780	Wilson, R. C 18	275, 276, 277, 302, 421, 422,
Western Pine Association 709	Winer, H. I. 247, 640, 641, 668	448, 492, 493, 568
Whaley, R. S 445, 696, 826	Winham, W. L 843	Young, C. E. 574, 827
Wheeland, H 1010	Wisconsin Retail Lumbermen's	Young, G. L. 366
Wheeler, P. R. 81, 82, 83, 446	Association 616, 617	Young, H. E
Whitaker, M 190		Youtsler, J. S
White, D. E 959	Wohletz, E	
White, G 273	Wood, A. D 675	Zaremba, J 881, 882, 883, 884
White, J. F 581	Woodard, A. W 964	Zavitz, E. J 491
White, R. A 813	Woodbury, R 880	Zimmerman, E. W 907
White, V. E. 485	Worley, D. P 292,	Zivnuska, J. A 102,
White, Z. W 364, 447	365, 564, 687, 915	194, 234, 251, 367, 470, 557,
Whitmore, R. A 996	Worrell, A. C 548	558, 885, 908, 969









